BASIC AMERICAN
MEDICAL PRODUCTS

ZENITH
SERIES

Zenith 9000 APS

Advanced Positioning System

INSTRUCTIONS FOR USE
SERVICE MANUAL

To avoid personal injury or damage to bed, please read all sections pertaining to your bed model before use.

ETL/UL/CSA APPROVED
UL 60601-1
IEC 60601-2-38
CSA 22.2 601.1

This service manual covers the following APS Models:

76” & 80” Full Electric with Pedal Lock Caster System & Grid Decks = APS98174;
76” & 80” Full Electric with Pedal Lock Caster System, Grid Decks, and Underbed Light = APS981741;
76” & 80” Full Electric with Pedal Lock Caster System, Grid Decks, Underbed Light, and Onboard Battery Backup System = APS981742.

BASIC AMERICAN
MEDICAL PRODUCTS

Basic American Medical Products
336 Trowbridge Drive
Fond du Lac, WI 54937

For APS 9000 Bed Service Parts please contact
our Customer Service Department at
1-800-365-2338

GF Health Products, Inc.
2935A Northwest Parkway
Atlanta, GA 30360
www.grahamfield.com

To order an APS 9000 Bed please contact a
Graham Field Sales Representative at
1-800-554-9215

IMPORTANT NOTICE

GF Health Products, Inc. is not responsible for typographical errors.
All illustrations, specifications, packaging, and warranties contained in this Service Manual are based on the latest product information available at the time of printing.
The most current product information can be found online at www.grahamfield.com.

Please check all parts for shipping damage and test before using.
In case of damage, DO NOT USE.

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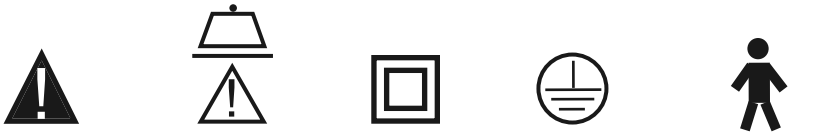
LABEL SYMBOL DEFINITIONS



Consult Accompanying Documents | Safe Working Load | Double Insulated | Protected Grounded Device | Type B Equipment & Applied Parts

IMPORTANT SAFETY AND WARNING INFORMATION

This product is a variable height, adjustable mattress platform, which will provide comfort and convenience for residents/patients and caregivers in long term care settings.

The MAXIMUM SAFE WORKING LOAD for the APS 9000 Bed with weight evenly distributed, including bedding, resident/patient, support surface, and all accessories, is 600 lbs.

NEVER operate the bed if a Power Cord or Plug is damaged or not working properly. Contact qualified Service Personnel for examination and repair. Always unplug the Power Cord when performing any maintenance on the bed.

DO NOT open assemblies such as the Actuators, Hand Control, or Control Box. If unauthorized personnel perform work on these components, the manufacturer's warranty becomes void.

DO NOT use unauthorized parts, accessories, or adaptors other than those specified/authorized by GF Health Products, Inc.

When operating the High/Low, Knee, or Back Functions of the bed, ALWAYS ensure that the confined individual is positioned properly within the confines of the bed. DO NOT let any extremities protrude over the side or between the bed rails when performing these functions.

DO NOT lower the bed when objects are beneath it. Failure to inspect under the bed can result in damage to property or personal injury.

The bed's Pendant Cord MUST BE ROUTED AND SECURED PROPERLY to ensure it does not become entangled and eventually severed during use. Also make sure all electrical cords DO NOT get tangled around the bed, side rails, or legs during transport or normal operation of the bed.

When using nasal- or masked-type administering equipment, all oxygen or air tubing MUST BE ROUTED AND SECURED PROPERLY to ensure that the tubing does not become entangled and eventually severed during the normal operation of the bed.

The bed should ALWAYS be left in its lowest position when unattended to reduce the risk of injury while getting in or out of the bed.

Keep all moving parts free of obstructions (i.e. blankets/sheets, heating blankets/pads, wiring, etc.)

DO NOT use the assist devices as push handles for moving the bed. Assist devices can be deformed or broken if excessive side pressure is exerted. Assist devices are not meant for patients considered as high risks for entrapment (i.e. patients with pre-existing conditions such as confusion, restlessness, lack of muscle control, altered mental status, either organic or medicinal, or a combination thereof). Additional safety measures should be considered for such high-risk patients.

NEVER permit more than one (1) person on/in the bed at any time.

Body weight should be evenly distributed over the sleeping surface of the bed. DO NOT allow the patient to lay, sit, or lean in such a way that their entire body weight is placed only on the raised head or foot sections of the bed. This especially applies when repositioning or transferring a patient in or out of the bed. Increased risk may occur when the patient's size and/or weight are inappropriate for the bed's dimensions or weight capacity.

The bed is intended for use, storage, and transport within a temperature range of -40˚C to +60˚C. It has a water-resistance rating of IPX4 and IS NOT to be power-washed or submersed.

Operating Conditions
Operation of the bed is based on the following conditions: Ambient Temperature of +10˚C to +40˚C; Relative Humidity of 30% to 75% (Non-condensing); Atmospheric Pressure of 700hPa to 1060hPa; and a Splash Protection of IEC 60529.

Storage
Storage of the bed is based on the following conditions: Ambient Temperature of -10˚C to 70˚C; Relative Humidity of 10% to 100%; and an Atmospheric Pressure of 500hPa to 1060hPa.

Radio Frequency Interference (RFI)
RFI influences most electronic equipment. Caution should be exercised with regard to the use of portable communications equipment in the area around such equipment. If RFI causes erratic behavior, shut the bed off immediately. Leave it off while the transmission is in progress.

TYPICAL APS 9000 BED IDENTIFICATION LABELS with Grounded Electrical Cable

Bed labels are an important part of identifying your bed's make and model when ordering replacement parts. The Serial Number is essential if you are claiming parts or service under warranty. These helpful labels can be located on the main frame rails, immediately below the sleep decks on either side of the bed.

Please have this IMPORTANT information ready when calling our customer service or technical support staff at 800-365-2338; it will allow us to better assist you and quickly answer your questions and concerns.

TYPICAL APS 9000 BED IDENTIFICATION LABELS for Class II Models

If you opted for an electrical system without grounding on your electrical cord, your bed is designated as a Class II.

The Identification bed labels to the left represent the labels for Class II beds. They can be located on the main frame rails, immediately below the sleep decks on either side of the bed.

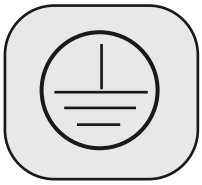
Please have this IMPORTANT information ready when calling our customer service or technical support staff at 800-365-2338. The labels at left will allow us to better assist you in answering your questions and concerns.

TYPICAL SAFETY/WARNING BED LABELS

The following warning labels have been placed on your bed to help protect you and your bed from damage. Please do not remove any labels from your bed.

WARNING!
DO NOT LOWER BED WHEN OBJECTS ARE BENEATH BED. FAILURE TO INSPECT UNDER BED CAN RESULT IN DAMAGE TO PROPERTY OR PERSONAL INJURY.

ATTENTION:
S'assurer de ne pas faire descendre le lit lorsque des objets se trouvent sous le lit. Ne pas inspecter le dessous du lit pourrait entrainer des dommages materiels et des risques de blessures.



WARNING!
DO NOT LOWER BED WHEN OBJECTS ARE BENEATH BED. FAILURE TO INSPECT UNDER BED CAN RESULT IN DAMAGE TO PROPERTY OR PERSONAL INJURY.

CAUTION
THIS BED IS SUITABLE FOR USE ONLY WITH OXYGEN ADMINISTERING EQUIPMENT OF THE NASAL OR MASK TYPE OR A TENT COVERING ONLY THE UPPER HALF (HEAD END) OF THE BED. OXYGEN TENT CANOPIES SHOULD NOT EXTEND BELOW BED SPRING LEVEL. LOCK HAND CONTROL AT FOOT OF BED WHEN USING OXYGEN ADMINISTERING EQUIPMENT.

ATTENTION:
CE LIT PEUT ETRE UTILISE UNIQUEMENT AVEC UN EQUIPMENT DESTINE A L'ADMINISTRATION D'OXYGENE DE TYPE NASAL OU MASQUE OU AVEC UNE TENTE RECOUVRANT SEULEMENT LA MOTTIE AVENT (TETE) DU LIT. LES COTES DE LAS TENTE OXYGENE NE DOIVENT PAS SE PROLONGER PLUS DAS QUE LA SOMMIER DU LIT.

ENTRAPMENT & COMPLIANCE INFORMATION

On March 10, 2006, the FDA (U.S. Food and Drug Administration) released long-awaited guidelines for reducing the risk of bed entrapment: *"Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment"*. The new Guidance identifies potential entrapment areas and those body parts most at risk for entrapment; provides design criteria for manufacturers of new hospital/convalescent beds; recommends particular test methods to assess the conformance of existing hospital/convalescent bed systems; and answers frequently-asked questions about entrapment issues.

The new Guidance was a result of a long-standing collaboration between the ***FDA*** and the ***Hospital Bed Safety Workgroup*** *(HBSW)*, formed in 1999. GF Health Products, Inc's Long-Term Care Bed division: *Basic American Medical Products*, is an HBSW charter member. As a result of our commitment to product safety, **all our current long-term care beds have been strictly tested and conform to the new FDA Guidance**.

The guidelines set forth by the FDA Guidance layout specific dimensional limitations on potentially injury-threatening gaps and spaces that can occur between bed system components, such as rails, when not properly installed. GF Health Products, Inc. and Basic American Medical Products have conformed to these guidelines from a manufacturing aspect. However, entrapment issues can often arise when a healthcare provider/facility has not correctly assembled the components on a bed. It is essential that the provider/facility fully understand their responsibility in complying to the guidelines set forth by the FDA in order to avoid injury. To that end, we have provided the FDA's web address at right as a resource for understanding and following these guidelines for the safety of patients/residents.

It is also essential to have the correct bed components/accessories that correspond with the needs of your patient/resident and the particular bed you have purchased. Matching the correct bed component that correlates with the regulatory guidelines can be a daunting task. Our sales team at GF Health Products, Inc. and our friendly Customer Service Representatives at Basic American Medical Products can help you sift through the wide array of compliance and bed options. We will help you determine which bed/bed part is best for your patient's/resident's particular needs and help you with your compliance issues.

The APS 9000 bed and accessories listed in this manual are in full compliance with FDA guidelines for reducing the risk of bed entrapment: "*Hospital Bed System Dimensional and Assessment Guidance to Reduce Entrapment*".

Details can found at www.fda.gov.

ZENITH 9000 APS MECHANICS

NOTE: All dimensions are in a range of +/- .25 inches

- Overall Bed Length (with brds & wallsaver) . . 82”/86”
- Overall Bed Width (with boards) . . . . . 36.00”
- High Height* . . . . . 30.00”
- Low Height* . . . . . 7.00”
- Maximum Head/Back Deck Angle . . . . . 70°
- Maximum Knee/Foot Deck Angle . . . . . 30°
- Maximum Safe Working Load . . . . . 600 lbs.
  WITH WEIGHT EVENLY DISTRIBUTED
  - includes bedding, resident, support surface, and all accessories.
- Mass of bed (without assist devices or boards) = 204 lbs.

* Bed height calculated from floor surface to top of sleep deck.

ZENITH 9000 APS ELECTRICAL

- Power/Frequency . . . . . 120 Volt 50/60 Hz
- Output Rating 12/33V IPX4
- Overall Movement Draw . . . . . 4.50 Amps
- Classification . . . . . Class I, Type B
- Electrical Cord . . . . . #18 AWG 3 Conductor Type SJT
- Classification . . . . . Class II, Type B
- Electrical Cord . . . . . #18 AWG 2 Conductor Type SJT
- Mode of Operations . . . . . .10% Max. Duty Cycle 2 minutes on/18 minutes off
- Battery Backup Option 1 . . . . 120V External Battery and Charger
  Pack and Charger can be purchased separately as an accessory.
- Battery Backup Option 2 . . . . 120V External Battery
  Pack is mounted to the bed frame - no charger needed.)

UNPACKING YOUR BED

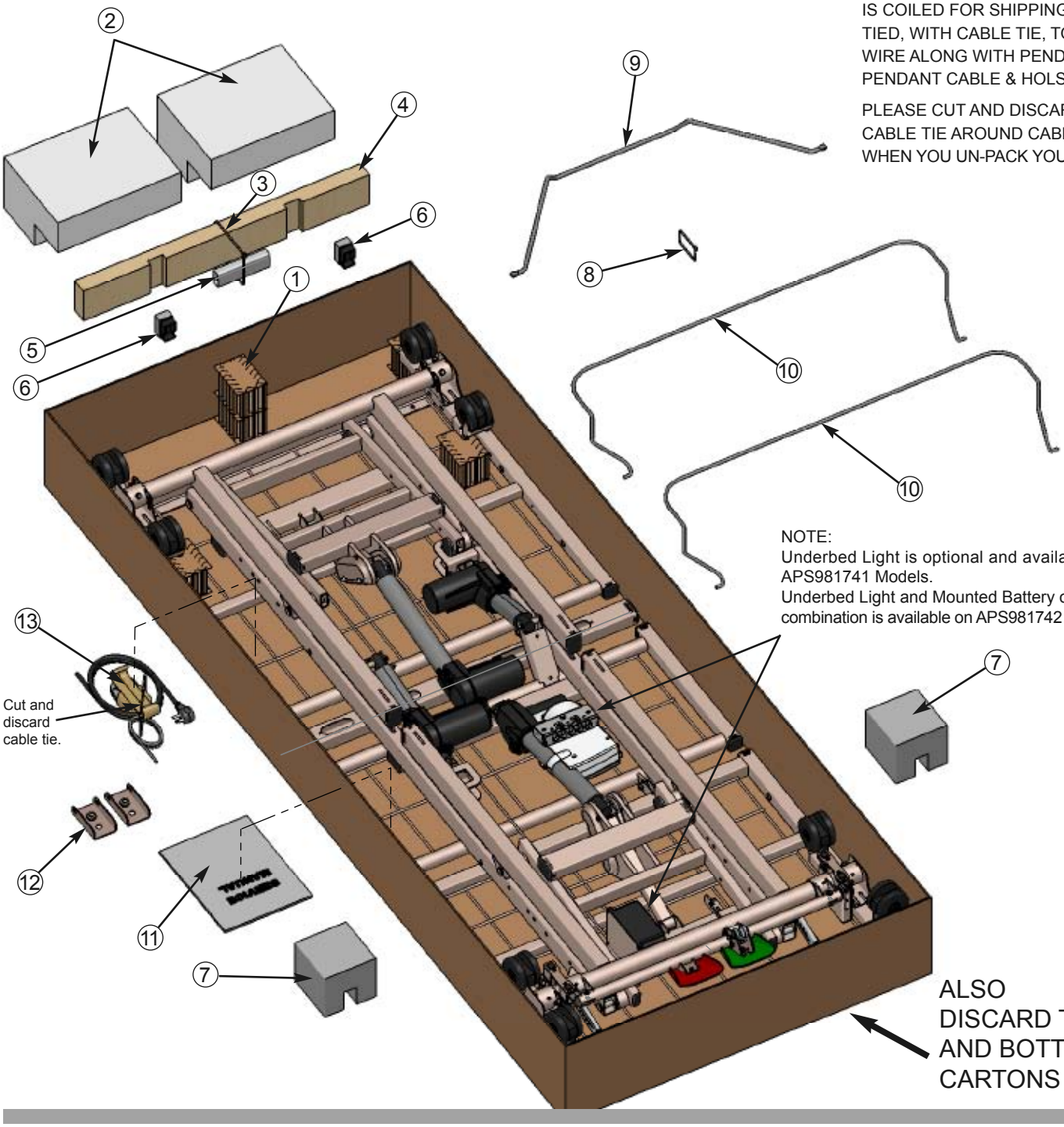
- Make sure all parts/components are included.
- Check all bed components for obvious damage.
- Inspect the Power Supply Cord for any cuts and/or damage.
- Check to see all actuator/motor cables are routed and connected properly to the control box.

DISCARD
1. Cardboard Blocks
2. Large Block
3. Large Cable Tie - CUT
4. Notched 2 x 4 Board
5. Foam Wrapping
6. End Caps with Foam
7. Notched Leg Foam
8. Small Cable Tie - CUT

KEEP
9. Wireform Wallsaver
10. Two Mattress Retainers
11. Service Manual/Documents
12. Wallsaver Adaptor Brackets for Trendelenberg and Reverse Trendelenberg Positioning
13. Pendant Holster (attached to pendant)

NOTE: END OF POWER CABLE IS COILED FOR SHIPPING AND TIED, WITH CABLE TIE, TO GRID WIRE ALONG WITH PENDANT, PENDANT CABLE & HOLSTER.

PLEASE CUT AND DISCARD CABLE TIE AROUND CABLES WHEN YOU UN-PACK YOUR BED.



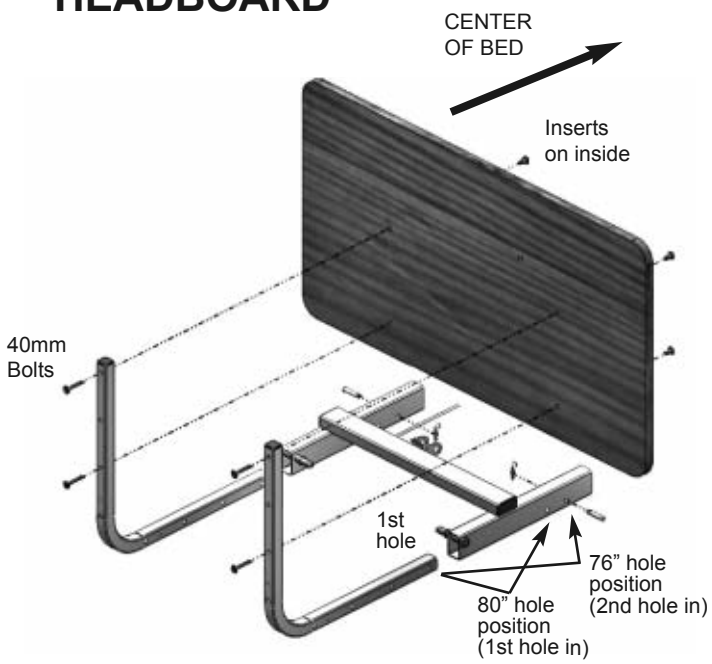
NOTE:
Underbed Light is optional and available on APS981741 Models.
Underbed Light and Mounted Battery optional combination is available on APS981742 Models.

HEAD- AND FOOTBOARD ASSEMBLY

1. HEADBOARD INSTALLATION

- The headboard comes with four pre-installed inserts - consider this the inside of the board.
- Position 2 mounting tubes on the outside of the headboard with “L” facing inward.
- Align the top hole of the mounting tubes with the top holes in the headboard.
- Insert a 40mm hex drive bolt through each of the top holes and bottom holes and screw into each insert. Tighten with the Hex Allen wrench included in your kit.
- Slide the “L” portions of the Mounting tubes into the hollow ends of the main frame rails, at the head deck end.
- **FOR 80” BEDS:** Slide the mounting tubes in until the 1ST hole in the tubes lines up with the 1ST hole in the rails. See sample below.
- **FOR 76” BEDS:** Slide the mounting tubes in until the 1ST hole in the tubes lines up with the 2ND hole in the rails. See sample below.

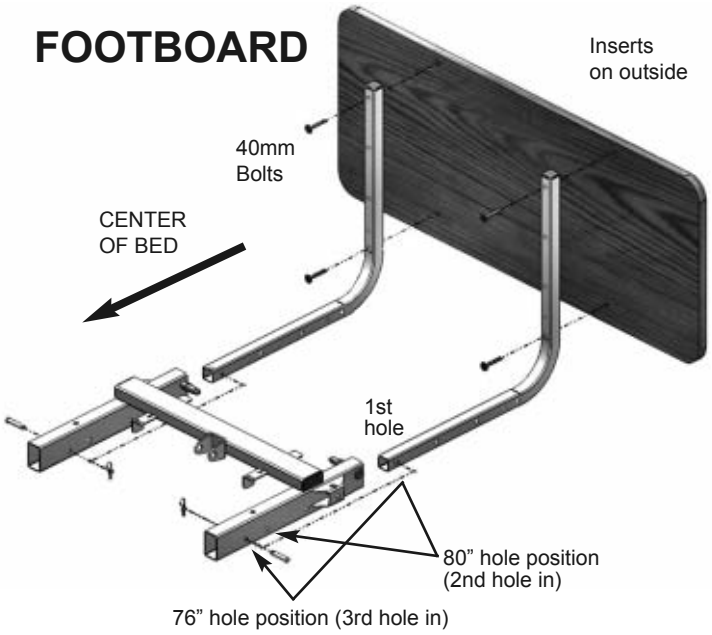
HEADBOARD



2. FOOTBOARD INSTALLATION

- The footboard comes with four pre-installed inserts - consider this the outside of the board.
- Position 2 mounting tubes on the inside of the footboard with “L” facing outward.
- Align the top hole of the mounting tubes with the top holes in the footboard.
- Insert a 40mm hex drive bolt through each of the top holes and bottom holes and screw into each insert. Tighten with the Hex Allen wrench included in your kit.
- Slide the “L” portions of the Mounting tubes into the hollow ends of the main frame rails, at the foot deck end.
- **FOR 80” BEDS:** Slide the mounting tubes in until the 1ST hole in the tubes lines up with the 2ND hole in the rails. See sample below.
- **FOR 76” BEDS:** Slide the mounting tubes in until the 1ST hole in the tubes lines up with the 3RD hole in the rails. See sample below.

FOOTBOARD



NOTE: The first hole at the foot end is reserved for attaching the Optional 4” pan extension.

PLUGGING IN THE FOOTBOARD NURSE/STAFF CONTROL

STEP 1 - ATTACHING THE FOOTBOARD

The APS 9000 bed features a Nurse/Staff Controller in the footboard, however the board is ordered separately with your bed because of the variety of board styles available. If ordered at the same time as the bed, the Staff Control Assembly and Shroud Cover will be pre-installed to the Footboard at the manufacturing factory.

STEP 2 - CONNECTING YOUR CABLES
Please refer to DETAIL A shown below.

a. If the Staff Control Assembly is not installed at the factory you will need to first attach it to the footboard.

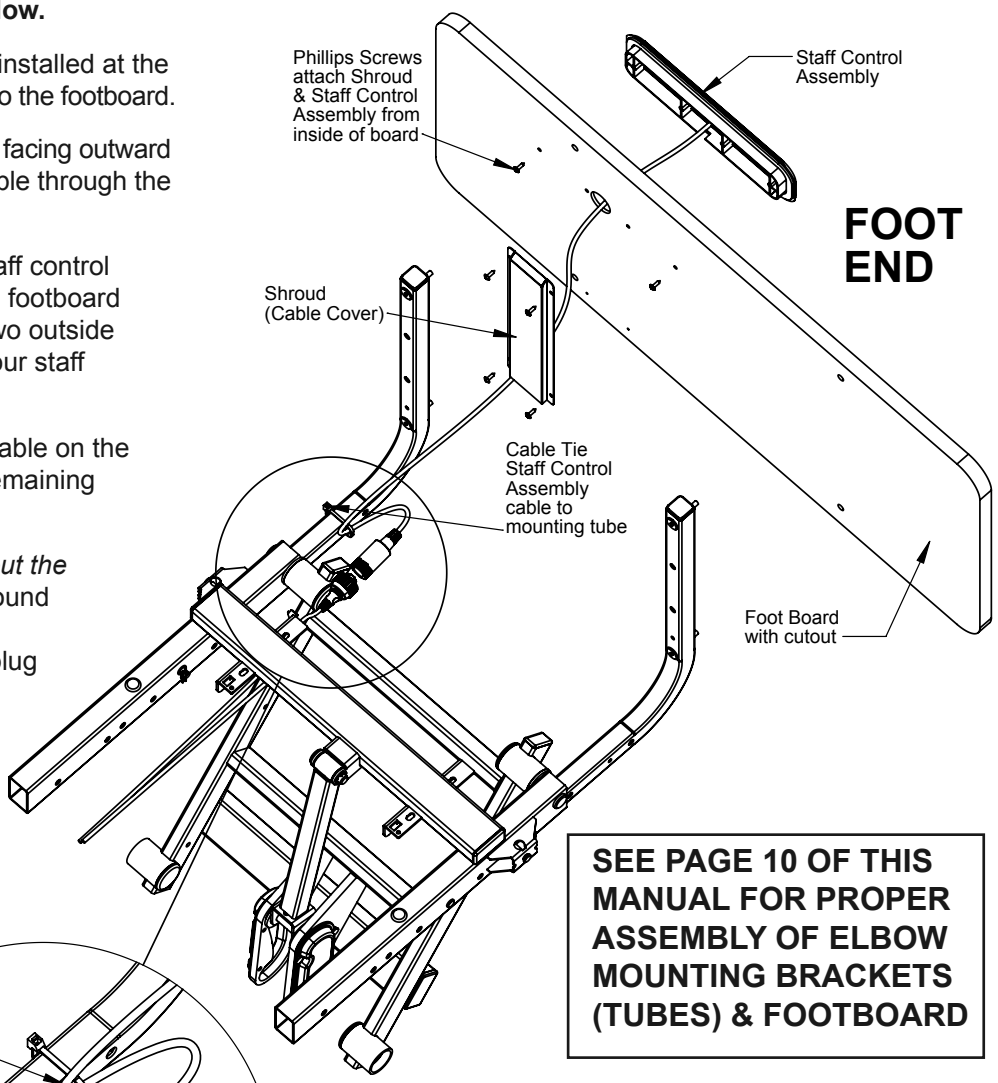
b. With the cutout side of the footboard facing outward as shown, insert the staff control cable through the large round hole.

c. With text right-side-up, insert the staff control assembly into the cutout slot on the footboard and attach to the board using the two outside small holes and two screws from your staff control hardware kit.

d. Attach the Shroud Cover over the cable on the inside of the board using the four remaining screws from your kit.

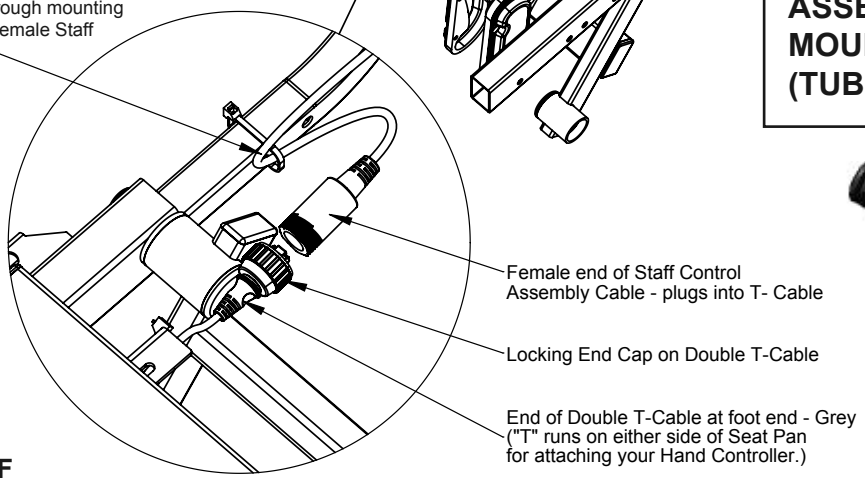
e. Insert the T-Cable end (*extending out the foot end with phone jack*) into the round plug, making sure the phone jack is seated correctly inside the female plug (arrow to arrow - see DETAIL B.)

f. Screw on the round lock cap onto the Staff control's female plug to secure (see DETAIL B).


Phillips Screws attach Shroud & Staff Control Assembly from inside of board
Staff Control Assembly
FOOT END
Shroud (Cable Cover)
Cable Tie Staff Control Assembly cable to mounting tube
Foot Board with cutout

SEE PAGE 10 OF THIS MANUAL FOR PROPER ASSEMBLY OF ELBOW MOUNTING BRACKETS (TUBES) & FOOTBOARD

g. **<u>IMPORTANT</u>:** Make sure to tie off the staff control cable to the foot-board mounting tube with a cable tie as shown.


Loop Male Staff Control Cable and cable tie through mounting tube hole with Female Staff Control Cable.
Female end of Staff Control Assembly Cable - plugs into T- Cable
Locking End Cap on Double T-Cable
End of Double T-Cable at foot end - Grey ("T" runs on either side of Seat Pan for attaching your Hand Controller.)

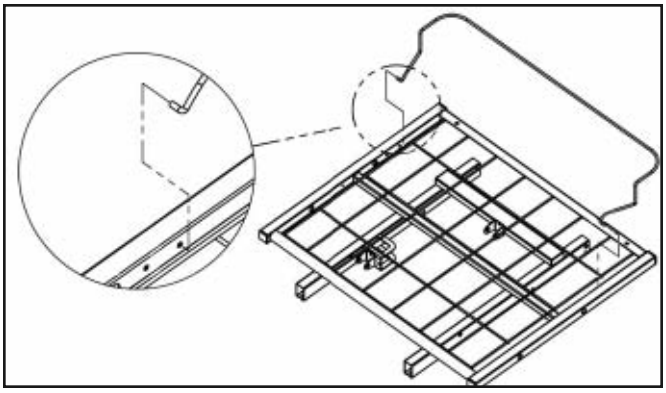
<u>DETAIL A</u>:
CLOSEUP OF STAFF CONTROL CABLE CONNECTION

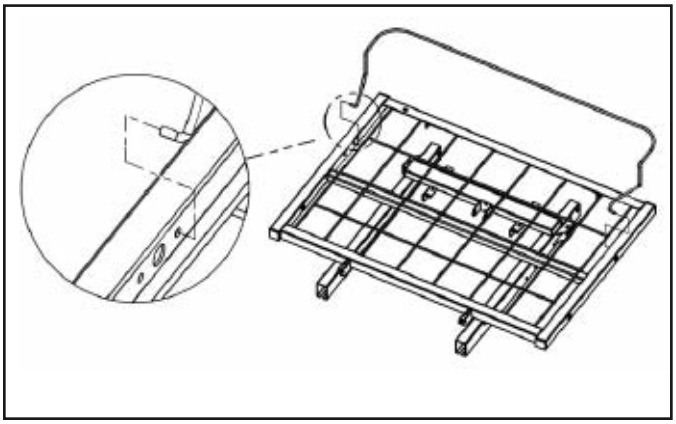
<u>DETAIL B</u>:
MAKE SURE LOCK END CAPS ARE SCREWED ON SECURELY

STANDARD MATTRESS RETAINER INSTALLATION

STEP 1. HEAD RETAINER INSTALLATION

1. Position retainer with curved end toward headboard.
2. Squeeze ends of the retainer toward the inside of the bed and lower between the deck rails and first outside grid wires.
3. Align the ends of retainer with small holes on the inside of deck rails and slowly release.



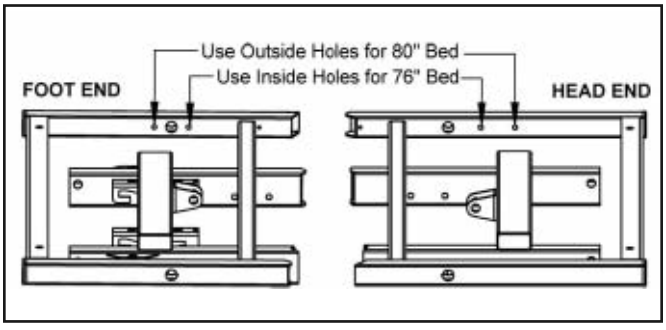


STEP 2. FOOT-END RETAINER INSTALLATION

1. Position retainer with curved end toward footboard.
2. Squeeze ends of the retainer toward the inside of the bed and lower between the deck rails and first outside grid wires.
3. Align the ends of retainer with small holes on the inside of deck rails and slowly release.

STEP 3. RETAINER POSITIONS

- **FOR 80" BEDS:** Use outside small holes. See sample at right.
- **FOR 76" BEDS:** Use inside small holes. See sample at right.



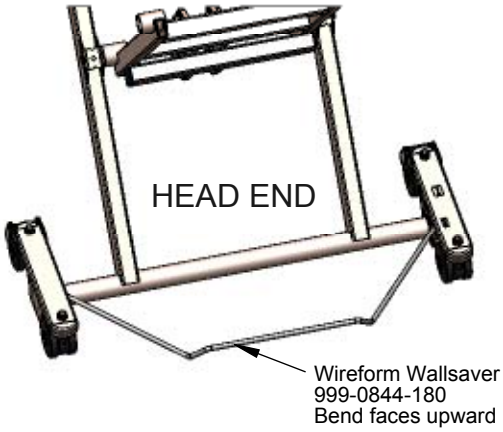
Be sure to use a mattress that is properly sized to fit the sleep deck, which will remain centered on the deck relative to State and Federal Guidelines. Use of an improperly fitted mattress could result in injury or death.

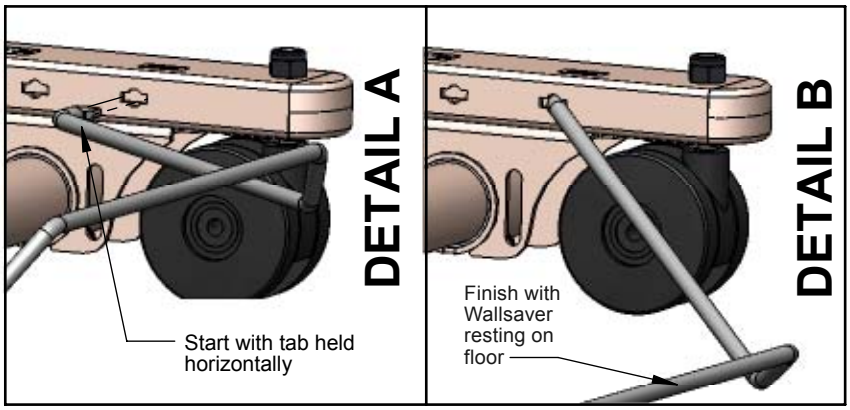
Use a properly sized mattress in order to minimize the gap between the side of the mattress and assist devices. This gap must be small enough to prevent resident/patient from getting his/her head or neck caught in this location.

STANDARD WIREFORM WALLSAVER INSTALLATION

STEP 1. WALLSAVER ASSEMBLY

1. Position the Wireform Wallsaver **(Part 999-0844-180)** with bent end facing upward and tab ends facing inward as shown at right.
2. Determine the position desired (See bottom of page).
3. Gently squeeze the tab ends of the wallsaver inward toward the center of the wallsaver and, holding the tabs parallel with the slots in the caster bases (See DETAIL A), slide the tabs into the slots while letting the wallsaver gently expand outward.
4. Turn the wallsaver downward until it rests on the floor (See Detail B).





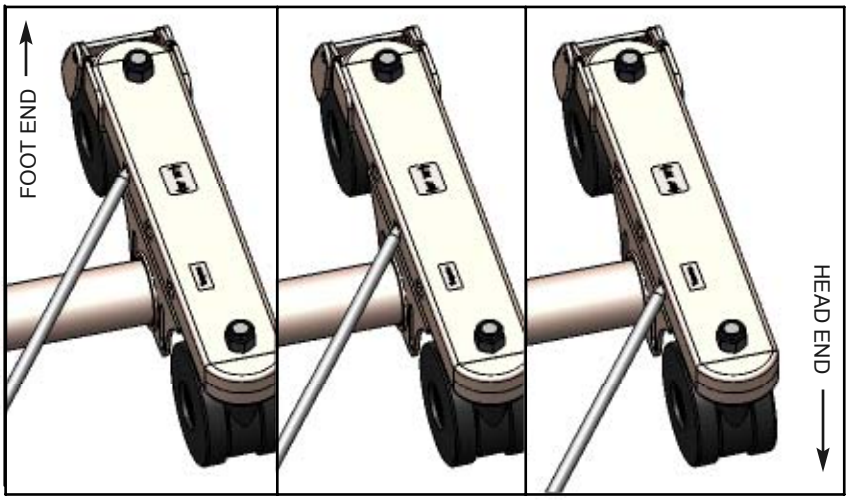
STEP 2. WALLSAVER REMOVAL

1. To remove or move the Wireform Wallsaver to a new position, raise the wallsaver off the floor until the end tabs are horizontal.
2. Squeeze the ends toward the center of the wallsaver until the end tabs slide out of the caster base slots.

STEP 2. WALLSAVER POSITIONS

1. The APS 9000 wallsaver features 3 positions for easy reconfiguration - 76”, 80”, and Trapeze (*if you use Trendelenberg/Reverse Trendelenberg positions please see optional adaptor brackets on next page*).
2. For 76” beds, position the wallsaver ends in the caster base slots closest to the FOOT end of the bed. For 80” beds, position the wallsaver ends in the MIDDLE slots on the bases.
3. If you have an optional Trapeze unit on a 76” bed, position the wallsaver ends in the MIDDLE slots on the caster bases. For 80” beds position wallsaver in slots closest to HEAD.

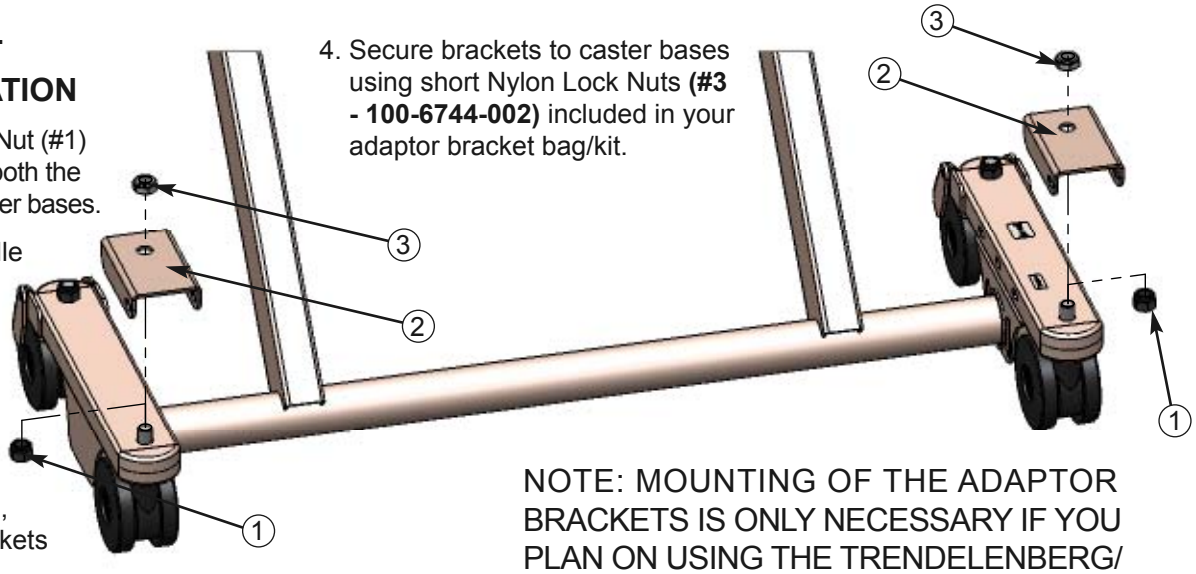
76” Bed Wallsaver Position w/o Trapeze | **76” Bed Wallsaver Position w/ Trapeze or 80” Bed w/o Trapeze** | **80” Bed Wallsaver Position w/ Trapeze**



OPTIONAL WALLSAVER ADAPTOR BRACKET INSTALLATION TO USE WITH TRENDELENBERG/REVERSE TRENDELENBERG FEATURE

STEP 1. BRACKET INSTALLATION

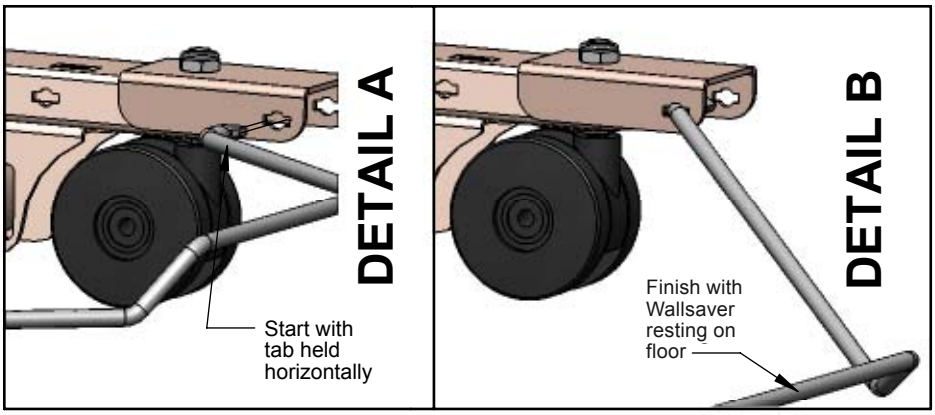
1. Remove the tall Lock Nut (#1) from the head end of both the right and left-hand caster bases.
2. Position the two saddle adaptor brackets **(#2 - 999-0831-002)** so that the ends with slots face away from the bases as shown.
3. Lower the brackets onto the caster bases, aligning holes in brackets with caster stems.
4. Secure brackets to caster bases using short Nylon Lock Nuts **(#3 - 100-6744-002)** included in your adaptor bracket bag/kit.



NOTE: MOUNTING OF THE ADAPTOR BRACKETS IS ONLY NECESSARY IF YOU PLAN ON USING THE TRENDELENBERG/ REVERSE TRENDELENBERG FEATURE.

STEP 2. WALLSAVER ASSEMBLY

1. Position the Wireform Wallsaver **(Part 999-0844-180)** with bent end facing upward and tab ends facing inward as shown at right.
2. Gently squeeze the tab ends of the wallsaver inward toward the center of the wallsaver and, hold -ing the tabs parallel with the slots in the caster bases (See DETAIL A), slide the tabs into the slots while letting the wallsaver gently expand outward.
4. Turn the wallsaver downward until it rests on the floor (See Detail B).

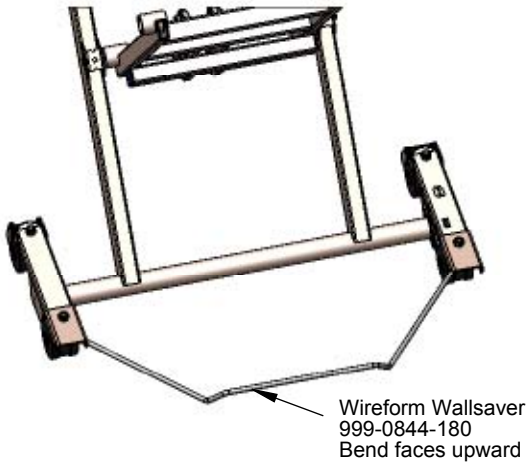


STEP 3. WALLSAVER REMOVAL

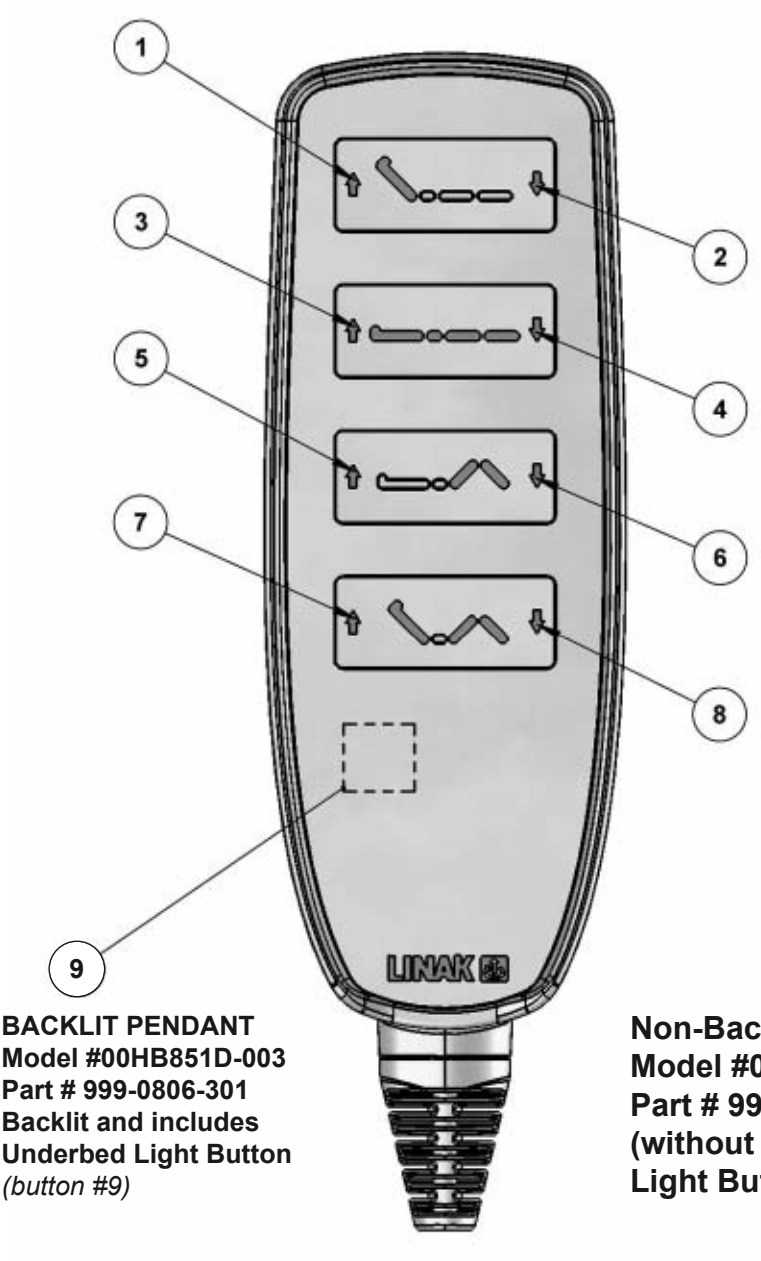
1. To remove or move the Wireform Wallsaver to a new position, raise the wallsaver off the floor until the end tabs are horizontal.
2. Squeeze the ends toward the center of the wallsaver until the end tabs slide out of the caster base slots.

IMPORTANT:

WALLSAVER END NEAREST THE WALL MUST FACE UPWARD AS SHOWN FOR WALLSAVER TO SEAT PROPERLY IN SLOTS.



BED OPERATIONS - APS PENDANT/HAND CONTROLLER



BACKLIT PENDANT
Model #00HB851D-003
Part # 999-0806-301
Backlit and includes Underbed Light Button
(button #9)

BACKLIT PENDANT	
1	HEAD DECK ANGLE UP BUTTON
2	HEAD DECK ANGLE DOWN BUTTON
3	HI/LO UP BUTTON (RAISE ENTIRE BED)
4	HI/LO DOWN BUTTON (LOWER ENTIRE BED)
5	KNEE & FOOT DECK ANGLE UP BUTTON
6	KNEE & FOOT DECK ANGLE DOWN BUTTON
7	SET TO CHAIR POSITION BUTTON
8	UNDO CHAIR POSITION BUTTON
9	OPTIONAL UNDERBED LIGHT BUTTON
NON-BACKLIT PENDANT	
	SAME FEATURES BUT WITHOUT UNDERBED LIGHT BUTTON

OPERATION:

1. To angle the Head Deck upward, PRESS 1
2. To angle the Head Deck downward, PRESS 2
3. To raise the Bed Up horizontally, PRESS 3
4. To lower the Bed Down horizontally, PRESS 4
5. To angle the Knee/Foot Decks upward, PRESS 5
6. To angle the Knee/Foot Decks downward, PRESS 6
7. To put the Bed in the Chair position, PRESS 7
8. To release the Bed from the Chair position, PRESS 8
9. To turn the underbed light on or off (*optional pendant only) PRESS THE LIGHT BULB ICON near the bottom of the hand controller (*not shown on sample at left*).

Non-Backlit Pendant
Model #00HB841A-001
Part # 999-0806-305
(without Underbed Light Button)

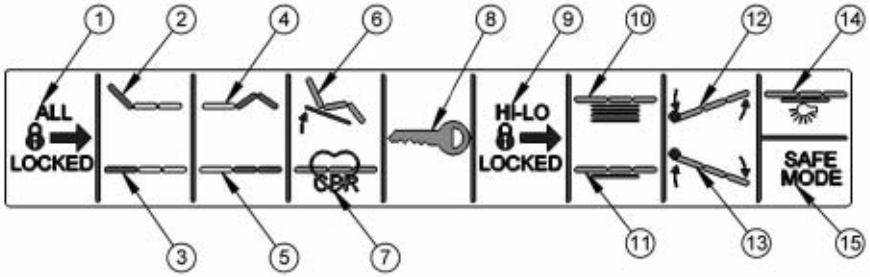
Back of both Pendants include attachment hook.

A Pendant holster also comes standard with the APS bed.

NOTE:
THE ZENITH 9000 APS BED COMES STANDARD WITH A FOOTBOARD NURSE/STAFF CONTROL (PLEASE MAKE SURE TO ORDER WITH APPROPRIATE BOARD STYLE). THE BACKLIT PENDANT WITH UNDERBED LIGHT BUTTON AND THE UNDERBED LIGHT CAN BE PURCHASED AS OPTIONS..

PLEASE SEE NEXT PAGE FOR NURSE/STAFF CONTROL OPERATING INSTRUCTIONS.

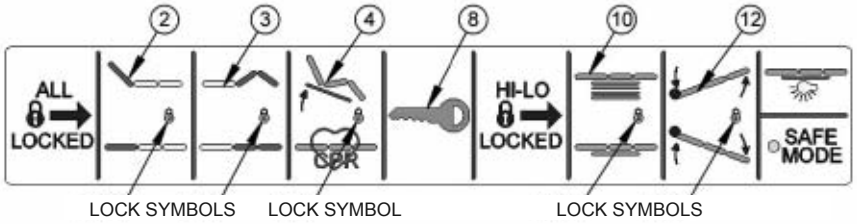
BED OPERATIONS - NURSE/STAFF CONTROL PANEL



Press “Underbed Light” button (#14) to turn underbed light on or off.

Press “CPR Heart” button (#7) to Level/Flatten the bed horizontally for CPR position.

“Safe Mode” (#15) LED light will glow green automatically once power cord is plugged in. Green light will blink intermittently for approximately 10 minutes. After 10 minutes of non-activity Hi/Lo Lock icons on the nurse/staff control panel will show orange (locked).



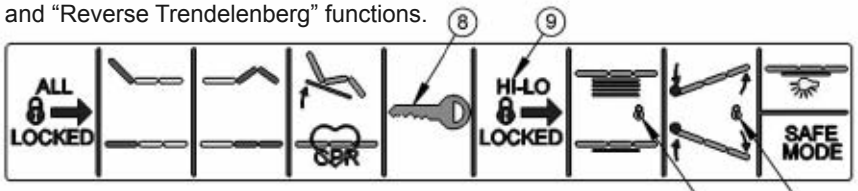
Press “Head”, “Knee”, or “Chair” and “Key” at the same time to unlock individual lock out functions.

1	ALL LOCKED BUTTON
2	HEAD DECK UP BUTTON
3	HEAD DECK DOWN BUTTON
4	KNEE & FOOT DECK UP BUTTON
5	KNEE & FOOT DECK DOWN BUTTON
6	CHAIR POSITION BUTTON
7	CPR/UNDO CHAIR POSITION BUTTON
8	KEY LOCK/UNLOCK BUTTON
9	HI/LO (T/TR) LOCKED BUTTON
10	HI/LO UP BUTTON
11	HI/LO DOWN BUTTON
12	TRENDELENBERG
13	REVERSE TRENDELENBERG
14	UNDERBED LIGHT BUTTON
15	SAFE MODE RELEASE BUTTON

LOCK OUT SINGLE FUNCTIONS
To individually lock out the “Head”, “Knee”, “Chair”, and “Hi/Lo” functions, press the appropriate top icon (#2, 3, 4, 10, or 12) button and the “Key” button at the same time. An orange LED lock symbol will appear under the related icon.

To “Unlock” any of the individual functions, press the top icon (#2, 3, 4, 10, or 12) and the “Key” Button (#8) simultaneously. LED lights will <u>not</u> show up.

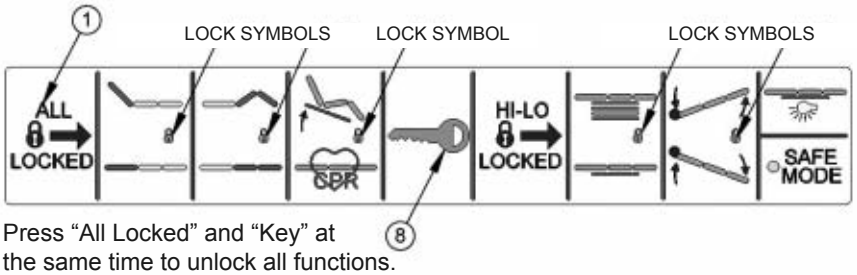
Press “Hi/Lo Locked” to lock out “Hi/Lo”, “Trendelenberg”, and “Reverse Trendelenberg” functions.



Press “Hi/Lo Locked” and “Key” at the same time to unlock all Hi/Lo lock out functions.

LOCK OUT HI/LO FUNCTIONS
To lockout the functions for raising and lowering the entire bed and tilting the bed for Trendelenberg positions, press the “Hi/Lo Locked” (#9) button. Orange LED lock symbols will appear under the icons.

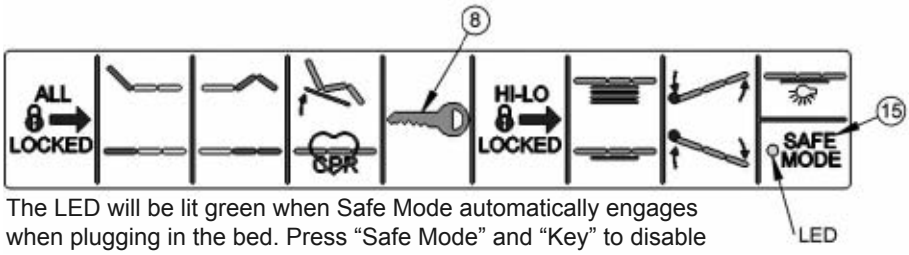
To “Unlock” all Hi/Lo functions, press the “Hi/Lo Locked” button (#9) and the “Key” button (#8) simultaneously. Orange LED lights will <u>not</u> show up.



Press “All Locked” and “Key” at the same time to unlock all functions.

LOCK OUT EVERYTHING
To lock out all functions, press the “All Locked” button (#1). Orange LED lock symbols will appear under the “Head”, “Knee”, “Chair”, “Hi/Lo”, and “Trendelenberg/Reverse Trendelenberg” icons.

To “Unlock” all functions, press the “All Locked” button (#1) and the “Key” button (#8) simultaneously. Orange LED lights will <u>not</u> show up.

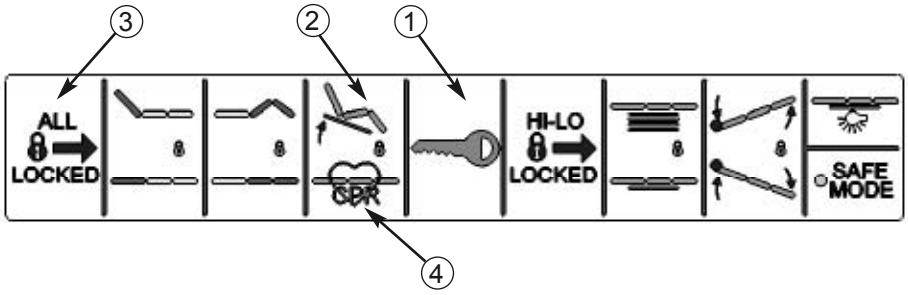


The LED will be lit green when Safe Mode automatically engages when plugging in the bed. Press “Safe Mode” and “Key” to disable the Safe Mode feature.

SAFE MODE:
Green light will show automatically when bed is plugged in and will blink intermittently during 10 minute “sleep mode”. After 10 minutes of lapsed time since the last function was used, the LED light shows green and Hi/Lo Lock icons will show orange.

To manually <u>disable</u> the function, hold the “Safe Mode” button (#15) and “Key” button (#8) at the same time. Green LED light will go out.

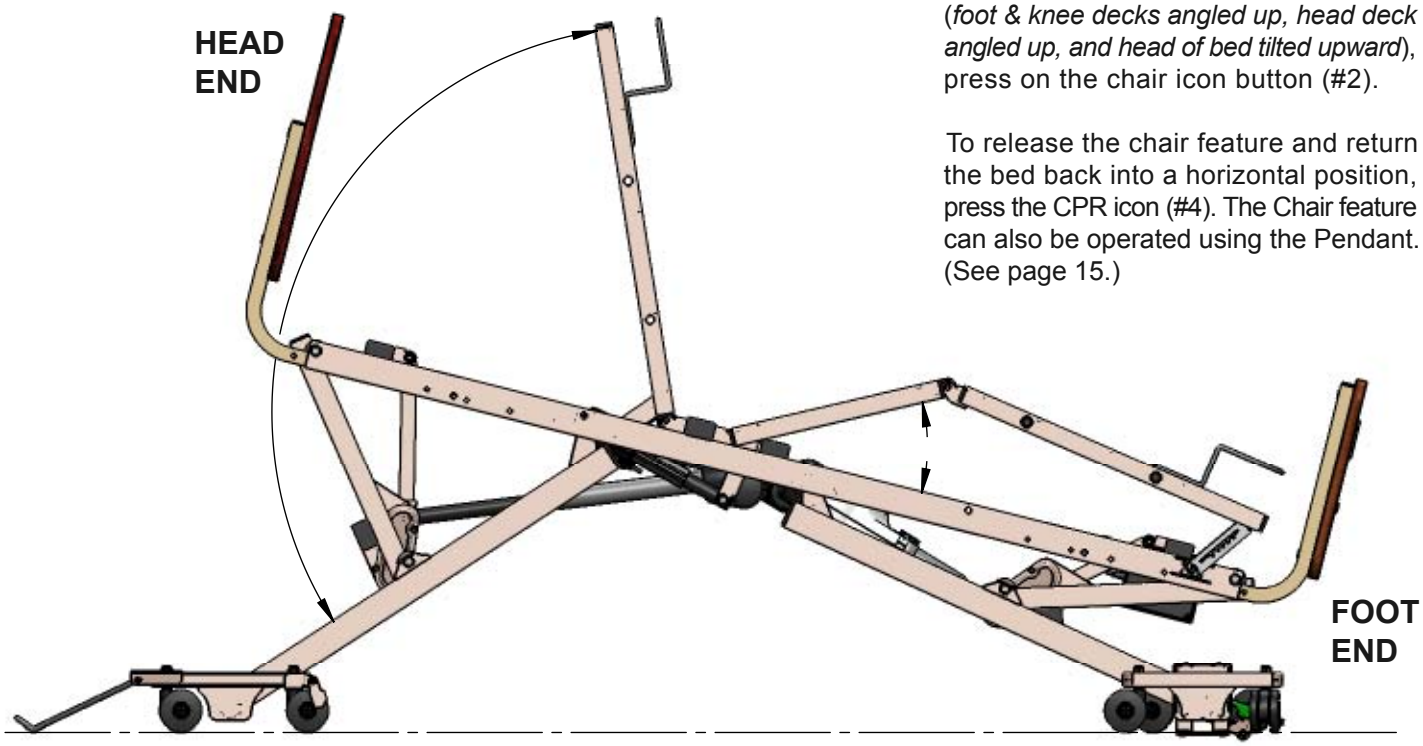
BED OPERATIONS - CHAIR POSITION



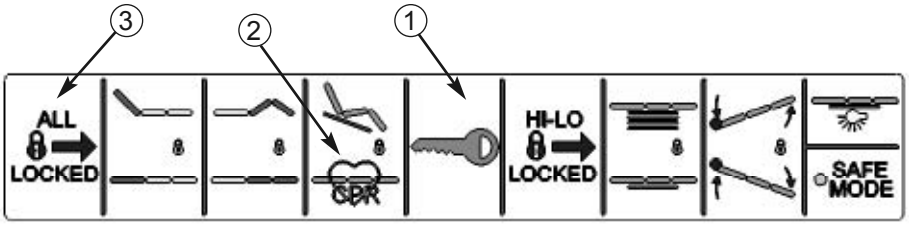
1. Make sure the Chair position on the staff control panel is not locked out (*orange lock icon*). To unlock, press the Key icon #1 and Chair icon #2) (or All Locked button #3) at the same time.

2. To move the bed to the Chair position (*foot & knee decks angled up, head deck angled up, and head of bed tilted upward*), press on the chair icon button (#2).

   To release the chair feature and return the bed back into a horizontal position, press the CPR icon (#4). The Chair feature can also be operated using the Pendant. (See page 15.)

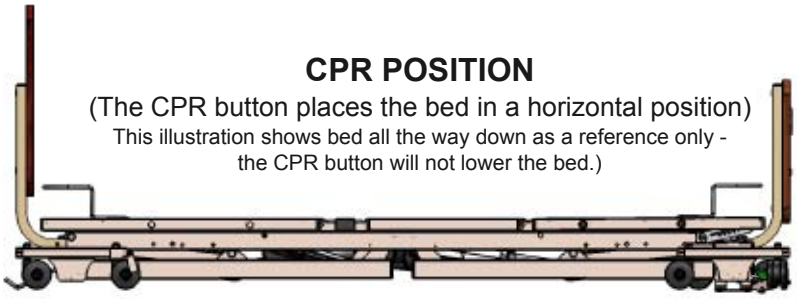


BED OPERATIONS - CPR/HEART POSITION



1. Make sure the bed positions on the staff control panel are not locked out (*orange lock icon*). To unlock, press the Key icon (#1) and the All Locked button (#3) at the same time.

2. To smoothly move the bed into a prone, horizontal position for CPR access, press and hold the CPR/Heart icon button (#2).



CPR POSITION

(The CPR button places the bed in a horizontal position)

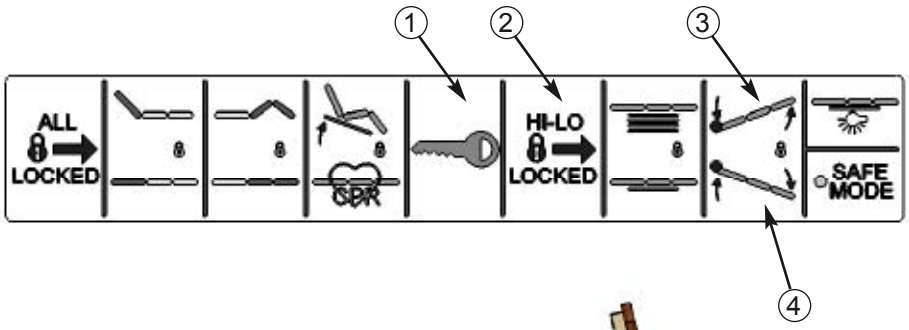
This illustration shows bed all the way down as a reference only - the CPR button will not lower the bed.)

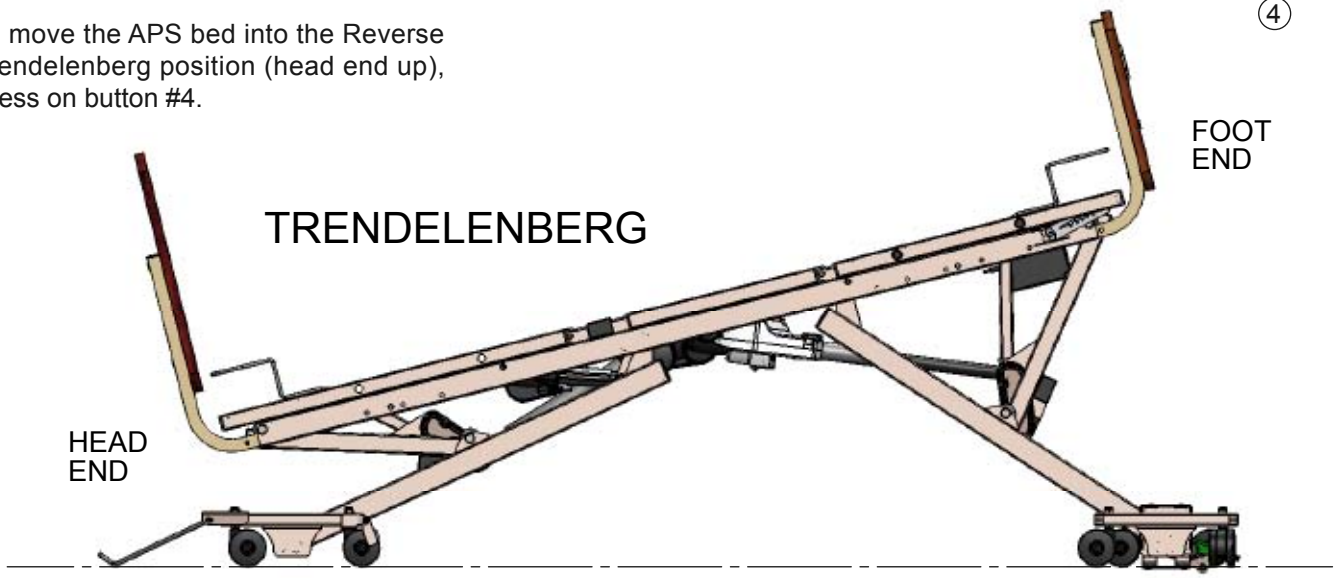
BED OPERATIONS - TRENDELENBERG/REVERSE TRENDELENBERG

1. Make sure the Hi/Lo function on the staff control panel is not locked out (*orange lock icon*). To unlock, press the Key icon #1 and Hi/LO Locked button #2 at the same time.

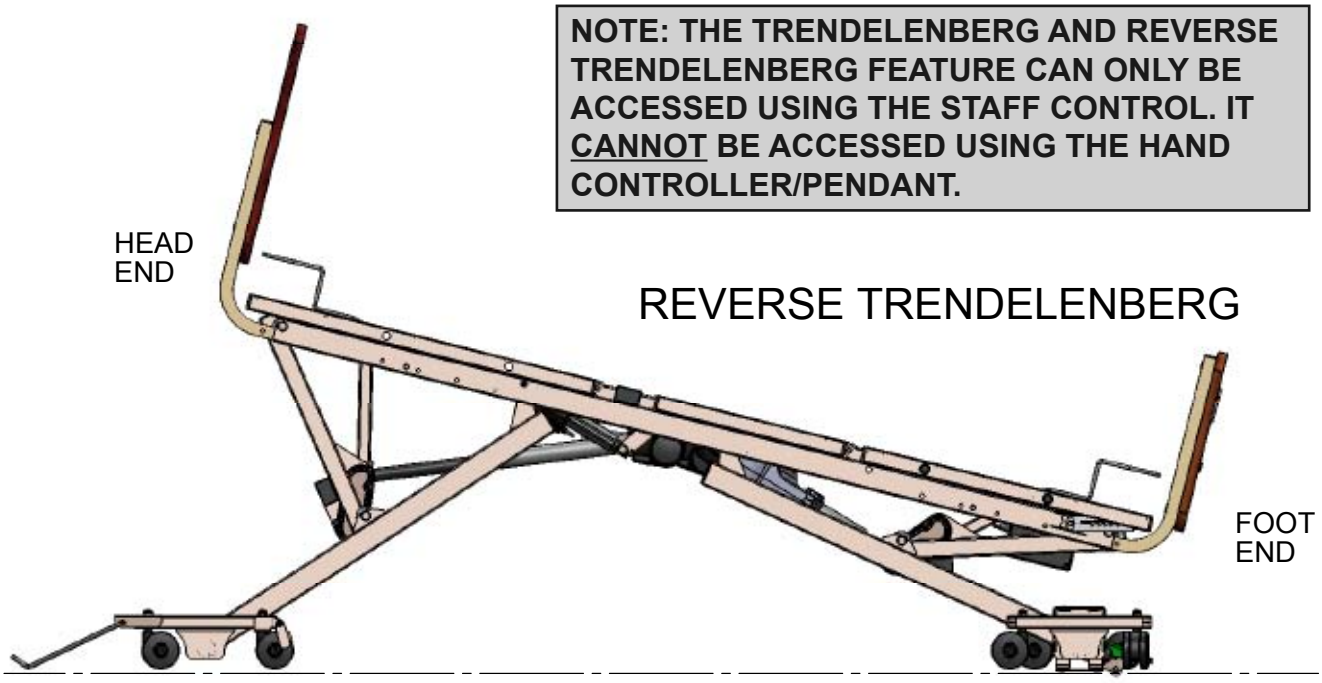
2. To move the bed to the Trendelenberg position (*foot end up*), press on button #3.

3. To move the APS bed into the Reverse Trendelenberg position (head end up), press on button #4.

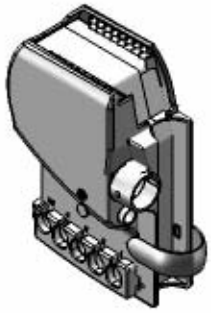




NOTE: THE TRENDELENBERG AND REVERSE TRENDELENBERG FEATURE CAN ONLY BE ACCESSED USING THE STAFF CONTROL. IT CANNOT BE ACCESSED USING THE HAND CONTROLLER/PENDANT.



APS 9000 SERIES ELECTRICAL COMPONENTS (LINAK)



Control/Junction Box
Part # 999-0831-300
Quantity = 1

Power Cable plugs into side port (part listed at bottom)

STANDARD:
Pendant/Hand Controller with Underbed Light Button
Part # 999-0806-301
Quantity = 1

Bed also includes Pendant Holster
Part # 999-0791-000
Quantity = 1

Head Motor/Actuator
Part # 999-0822-052
Quantity = 1

Double “T” Cable
Part # 999-0806-200
Quantity = 1

Foot Motor/Actuator
Part # 999-0822-053
Quantity = 1

Motor Cable (Hd & Hi/Lo)
Part # 999-0806-203
Quantity = 3

Hi/Lo Motor/Actuator
Part # 999-0831-051
Quantity = 2

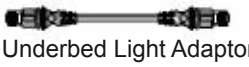
Motor Cable (Ft.)
Part # 999-0806-202
Quantity = 1

Battery Backup Cable
Part # 999-0831-200
Quantity = 1

STANDARD:
3 Prong Power Cable
Part # 999-0775-208
Quantity = 1

OPTIONAL:
2 Prong Power Cable
Part # 999-0775-206
Quantity = 1

OPTIONAL UNDERBED LIGHT



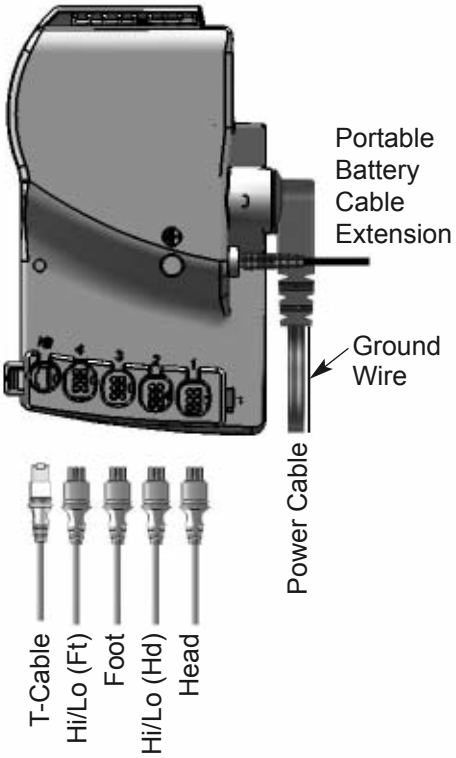
Underbed Light Adaptor Cable
Part # 999-0806-212
Quantity = 1

Underbed Light
Part # 999-0806-220
Quantity = 1

DO NOT use unauthorized parts, accessories, or adaptors other than those specified/authorized by GF Health Products, Inc. DO NOT open assemblies such as the Actuators, Hand Control, or Control Box. If unauthorized personnel perform work on these components, the manufacturer’s warranty becomes void. NEVER operate the bed if a Power Cord or Plug is damaged or not working properly. Contact qualified Service Personnel for examination and repair. Always unplug the Power Cord when performing any maintenance on the bed.

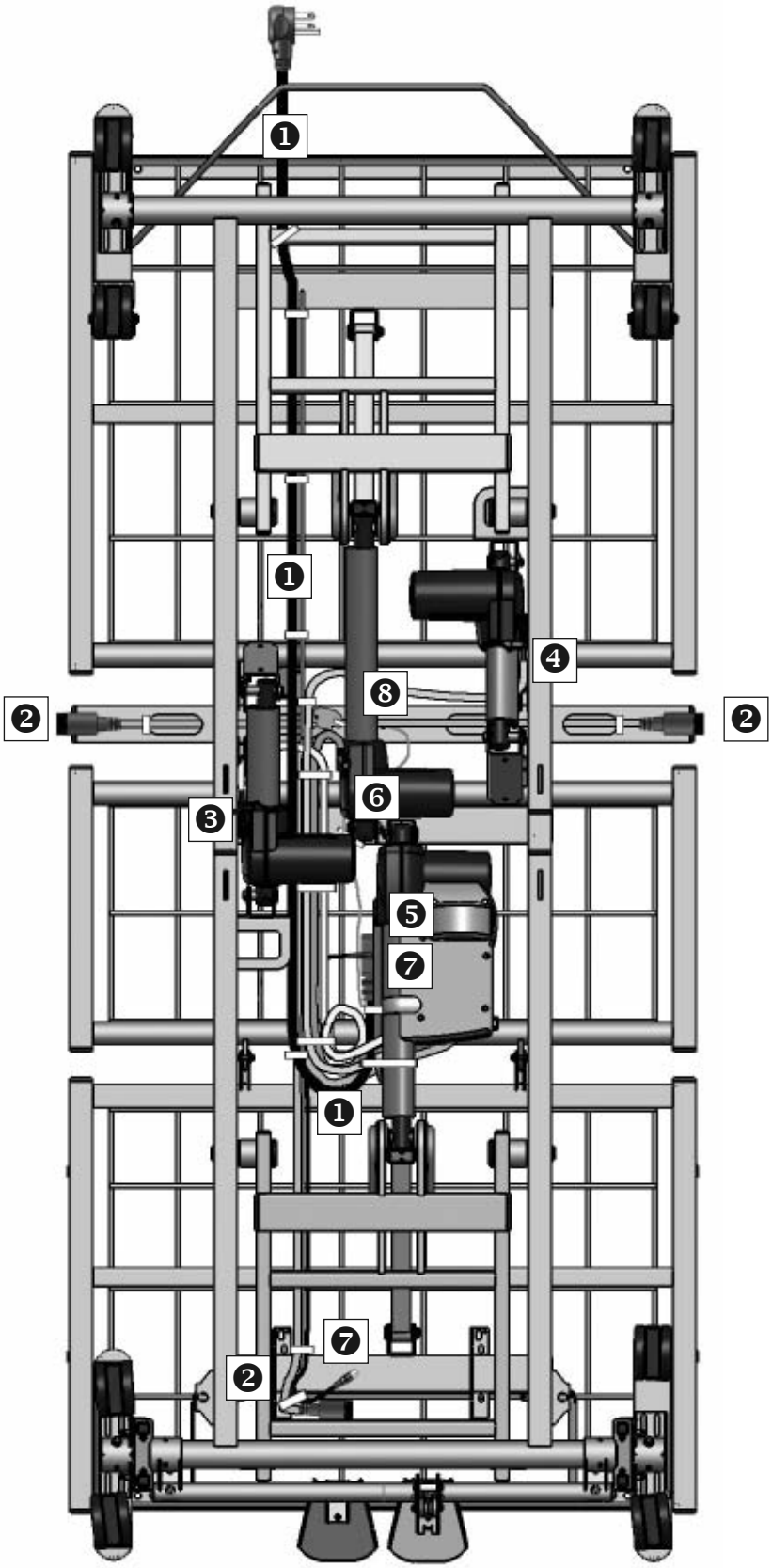
APS9000 SERIES ELECTRICAL CABLING - STANDARD

❶ POWER CABLE
❷ T-CABLE
❸ HEAD CABLE
❹ FOOT CABLE
❺ HI/LO CABLE (FOOT)
❻ HI/LO CABLE (HEAD)
❼ BATTERY BACKUP CABLE
❽ GROUND WIRE



T-Cable (HB)
Hi/Lo (Ft) - Port 4
Foot - Port 3
Hi/Lo (Hd) - Port 2
Head - Port 1

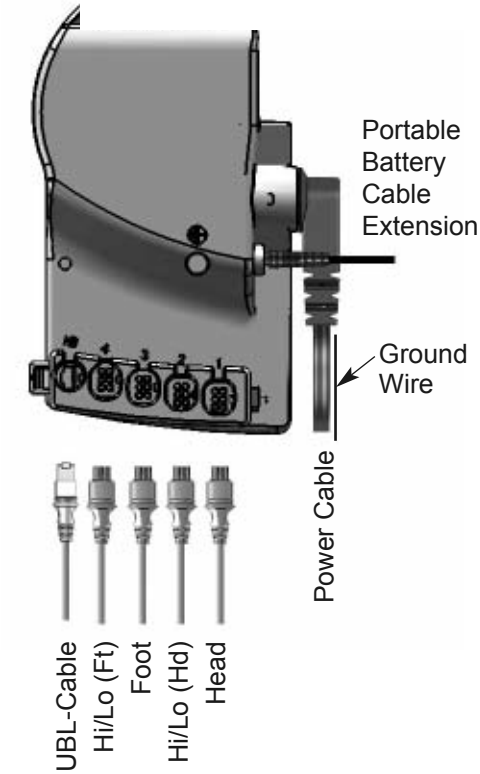
Power Cable &
Battery Cable -
Side of Control Box

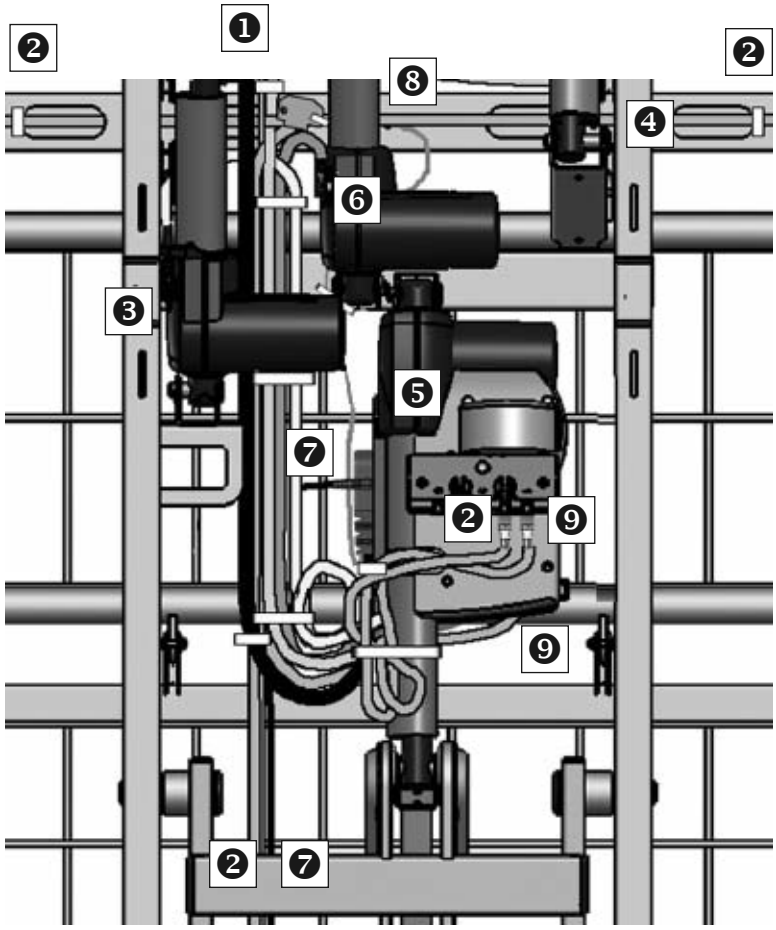


APS9000 SERIES ELECTRICAL CABLING - WITH UNDERBED LIGHT

NOTE: Cabling for Beds with Underbed Light feature is identical to Standard APS beds, except that the T-Cable plugs into Port 2 in the Underbed Light Box and an extra Extension Cable is plugged into Port 1 on the Underbed Light Box and the HB Port in the Control Box.

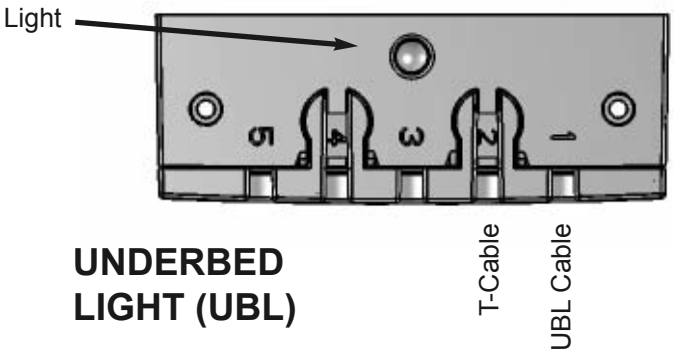
❶ POWER CABLE
❷ T-CABLE
❸ HEAD CABLE
❹ FOOT CABLE
❺ HI/LO CABLE (FOOT)
❻ HI/LO CABLE (HEAD)
❼ BATTERY BACKUP CABLE
❽ GROUND WIRE
❾ UNDERBED LIGHT CABLE (UBL)





T-Cable - Port 2 in Underbed Light Box
Hi/Lo (Ft) - Port 4 in Control Box
Foot - Port 3 in Control Box
Hi/Lo (Hd) - Port 2 in Control Box
Head - Port 1 in Control Box

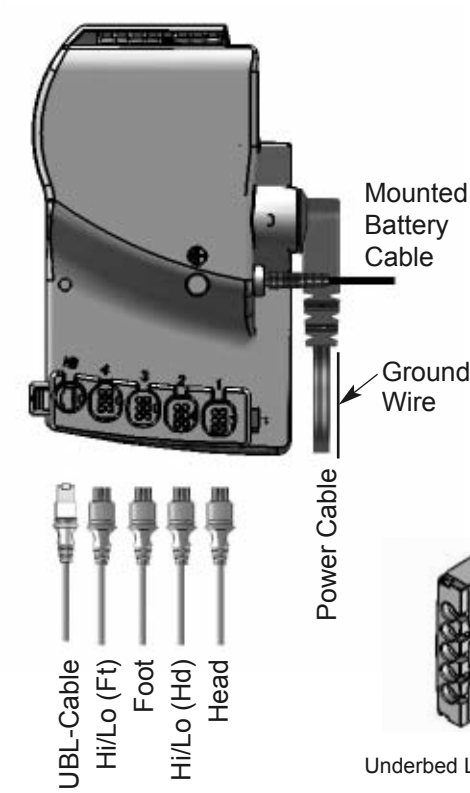
Power Cable &
Battery Cable -
Side of Control Box

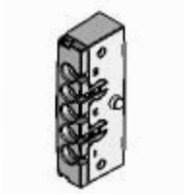


UNDERBED LIGHT (UBL)

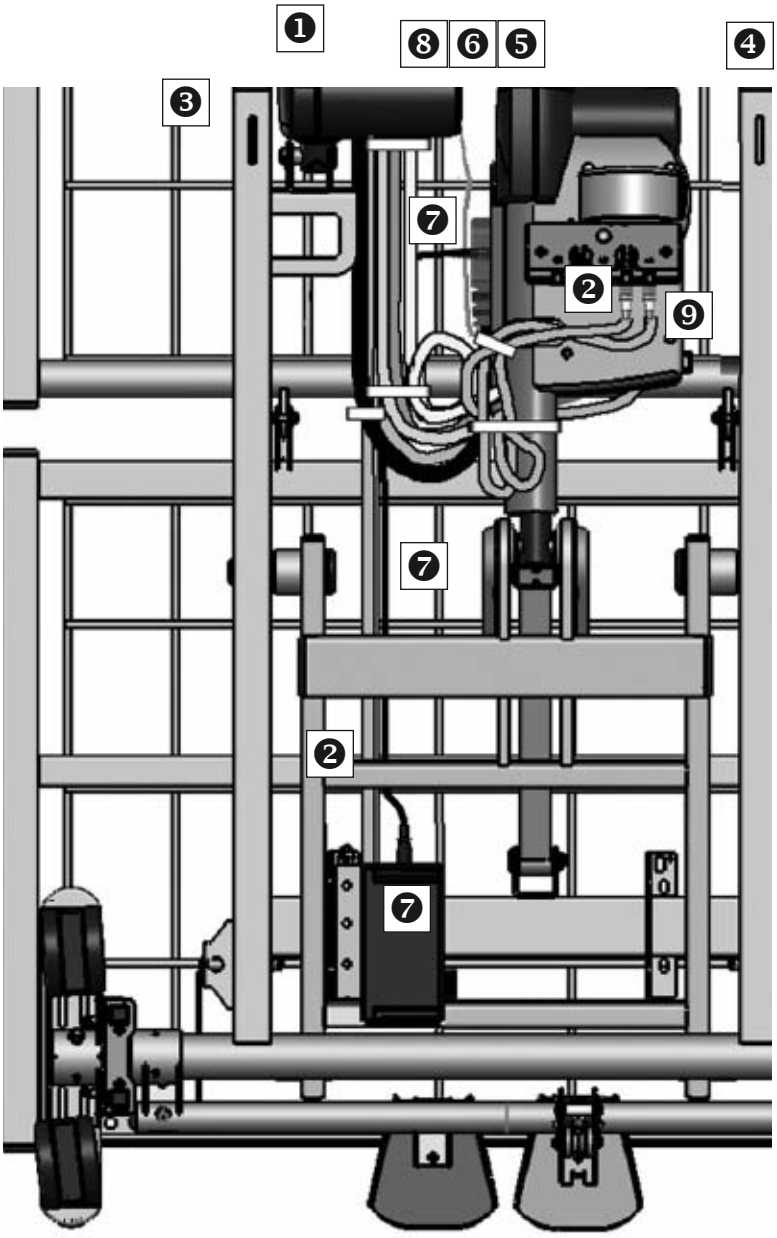
APS9000 SERIES ELECTRICAL CABLING - WITH UNDERBED LIGHT & BATTERY

❶ POWER CABLE
❷ T-CABLE
❸ HEAD CABLE
❹ FOOT CABLE
❺ HI/LO CABLE (FOOT)
❻ HI/LO CABLE (HEAD)
❼ BATTERY BACKUP CABLE
❽ GROUND WIRE
❾ UNDERBED LIGHT CABLE (UBL)





Underbed Light (UBL)



NOTE: Cabling for Beds with Underbed Light and Mounted Battery Backup features are identical to Standard APS beds, except that the T-Cable plugs into Port 2 in the Underbed Light Box and an extra Extension Cable is plugged into Port 1 on the Underbed Light Box and the HB Port in the Control Box.

A Battery Cable runs from the Control Box directly to an external Battery Pack at the foot end.

MOUNTED BATTERY OPTION

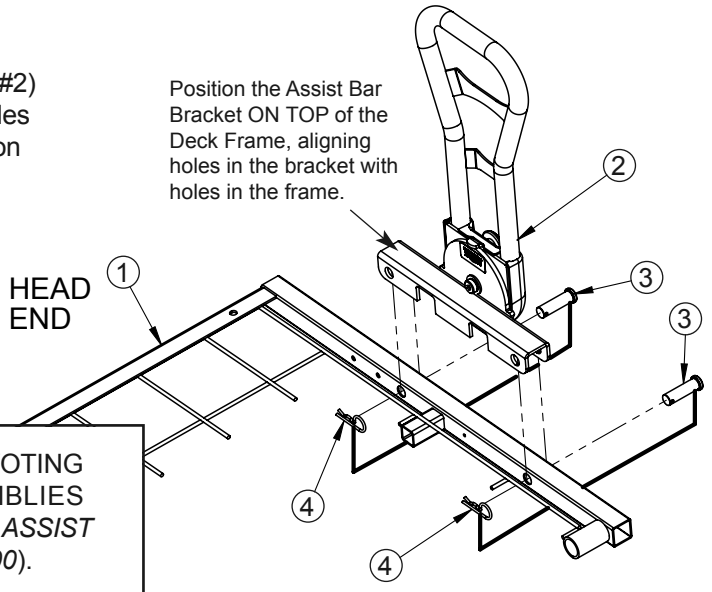
OPTIONAL PIVOT ASSIST BAR INSTALLATION & OPERATION

INSTALLATION

1. At the head end of the bed, position the Pivoting Assist Bar (#2) bracket over the Head Deck (#1) frame and align the two holes in the Assist Bar bracket with the two holes in the frame rail on either side of the head deck.

2. From the outside, insert the Clevis Pins (#3) through the holes in the pivot bracket and deck frame.

3. From the inside, insert a Hair Pin Clip (#4) through each of the small holes in the clevis pins.

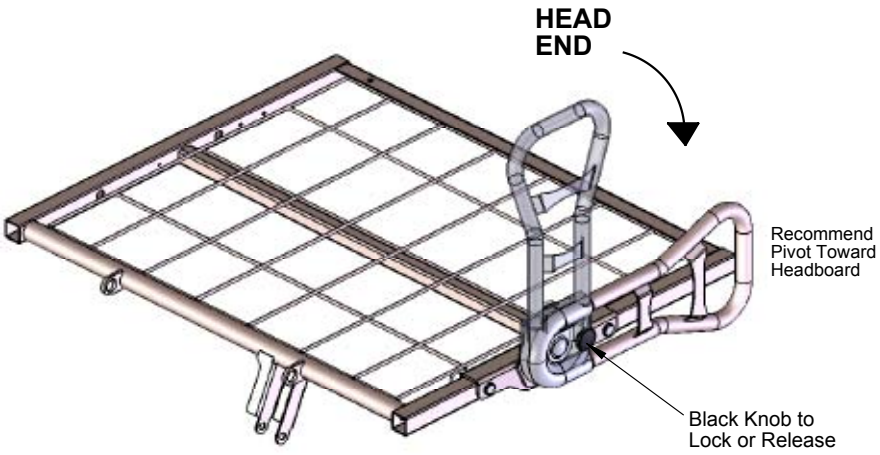


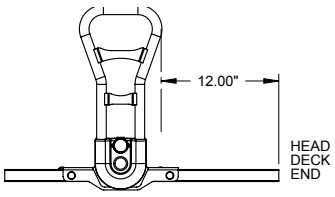
PLEASE ORDER KIT #ZA85400. KIT INCLUDES ONE PIVOTING ASSIST BAR ASSEMBLY AND TWO LANYARD ASSEMBLIES WITH CLEVIS PINS AND HAIR PIN CLIPS. (*A STATIONARY ASSIST BAR IS ALSO AVAILABLE AS AN OPTION - KIT # ZA85000*).

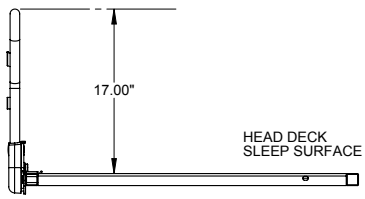
THE ASSIST BAR CAN BE POSITIONED ON EITHER THE RIGHT SIDE OR LEFT SIDE OF THE HEAD DECK. **IT IS NOT OFFERED FOR THE FOOT END OF THE BED.**

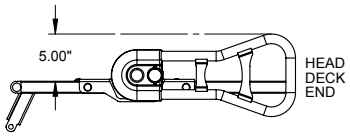
SAMPLE SHOWS PIVOTING ASSIST BAR POSITIONED ON THE LEFT SIDE OF THE BED.

PIVOTING ASSIST BAR OPERATION









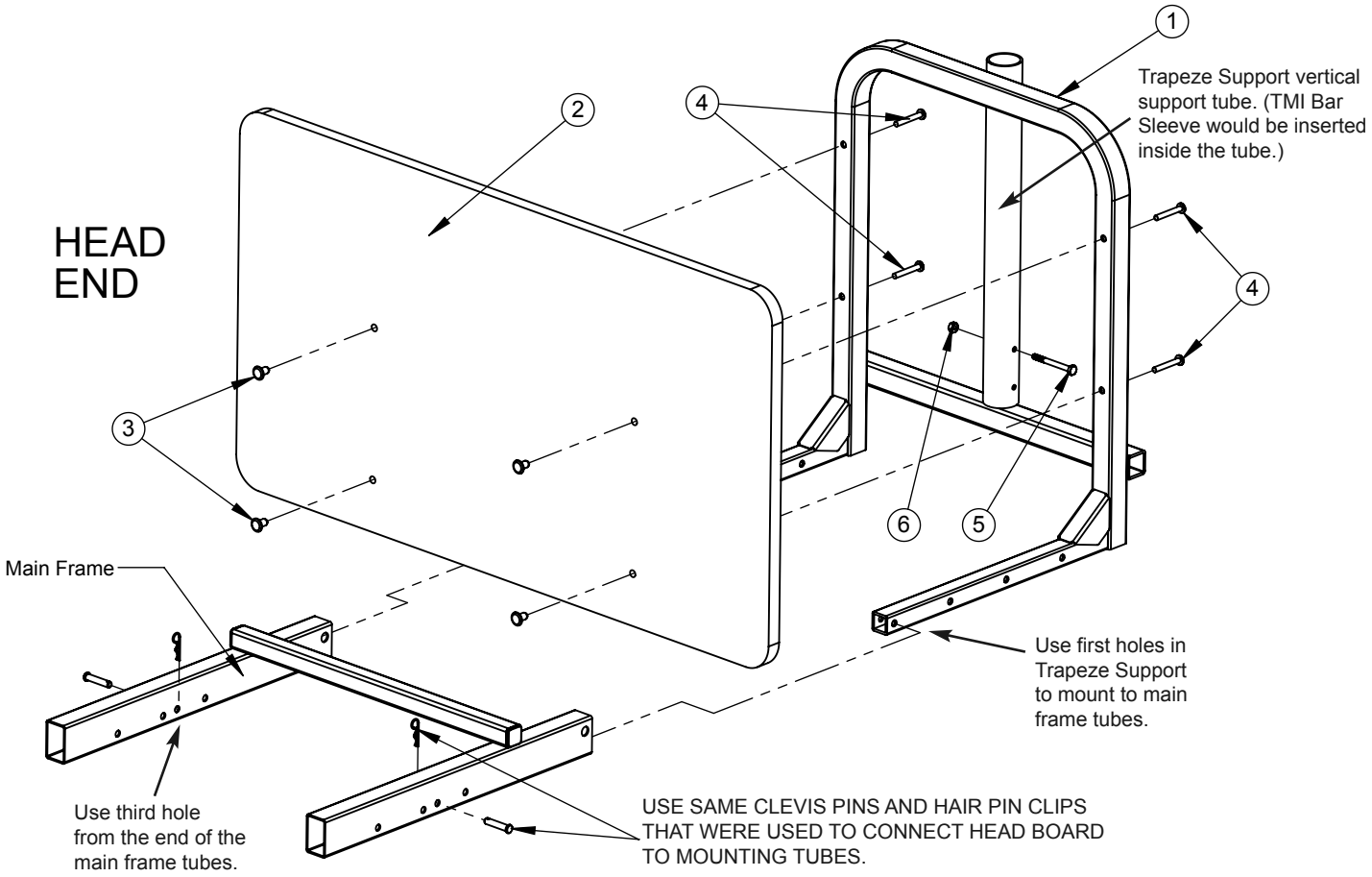
1. To release the pivoting assist bar from its vertical lock position, hold onto the top of the bar with one hand and slightly pull out the black knob on the outside of the pivot assembly with the other hand to release the locking mechanism. For ease of patient access, it is recommended that you pivot the rail toward the headboard until it stops and rests in place.

2. To set the assist bar back to its upright locked position, grab the top of the assist bar with one hand and pivot the assembly upward until the black knob mechanism snaps into place, locking the assist bar vertically.

⚠ FOR YOUR SAFETY, MAKE SURE YOUR FINGERS ARE CLEAR OF THE SIDES OR UNDERNEATH THE PIVOTING ASSEMBLY WHEN PIVOTING THE ASSIST BAR UP OR DOWN.

⚠ PLEASE MAKE SURE THE PIVOT ASSIST BAR IS ALWAYS IN THE FULL, VERTICAL, LOCKED POSITION WHEN RESIDENT/PATIENT IS LEFT UNATTENDED.

OPTIONAL TRAPEZE SUPPORT INSTALLATION
(The Trapeze Support is attached to the head section of the bed.)
Please Order Kit Number ZA79000


1
Trapeze Support vertical support tube. (TMI Bar Sleeve would be inserted inside the tube.)
2
4
HEAD END
4
3
6
5
Main Frame
Use first holes in Trapeze Support to mount to main frame tubes.
Use third hole from the end of the main frame tubes.
USE SAME CLEVIS PINS AND HAIR PIN CLIPS THAT WERE USED TO CONNECT HEAD BOARD TO MOUNTING TUBES.

1. Begin by removing the headboard panel assembly (#2), if previously assembled to the bed, by pulling out the two Clevis Pins and two Hair Pin Clips that attach the main frame tubes to the headboard's mounting tubes. Set all pins aside for later use.

2. Detach the headboard panel from the mounting tubes by unscrewing the four 40mm Allen Head Bolts that hold the board to the tubes (these will be replaced with the longer Phillips Head Pan Screws from your trapeze adaptor hardware bag). Do not remove the four 1/4-20 inserts (#3) from the board. They will be used again to mount the board to the trapeze support.

3. Assemble the Trapeze Support (#1) to the main frame tubes using the two Clevis Pins and Hair Pin Clips you removed in Step 1. The first holes in the Trapeze tubes must line up with the third hole from the end in the main frame tubes as shown.

4. Insert the 1/4-20 x 2.50" Carriage Bolt (#5) into the vertical support as shown and fasten with a 1/4-20 Hex Head Lock Nut (#6). Both parts should be in your hardware bag.

5. Assemble the headboard to the inside of the Trapeze Support so that the side of the headboard with the inserts is facing away from the Trapeze Support. From the outside, insert the four 1/4-20 x 1.75" long Machine Screws (#4) from your hardware bag through the holes in the Trapeze Support, screwing them into the inserts in the headboard.

6. **OPTIONAL - FOR TMI TRAPEZE BAR WITH SLEEVE:** Insert the Sleeve into the vertical support with the slot on the bottom. Rotate the sleeve until it falls into place over the carriage bolt you inserted in Step 4. This will lock it into the proper position. **(NOTE: The top of the Sleeve should sit flush with the top of the vertical support on the Trapeze Support Adaptor.)**

OPTIONAL BATTERY BACKUP REPLACEMENT CONFIGURATIONS

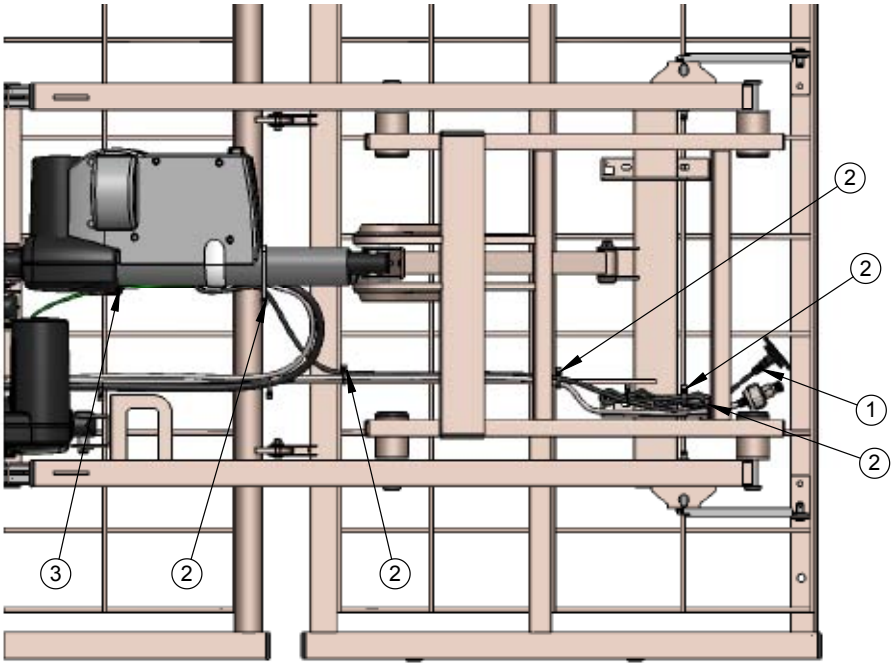
Configuration 1:
Replacing Single Battery Cable for a "Portable" Battery Backup Unit

1. Replacing your existing battery backup cable **(Part 999-0711-001)** is fairly simple. First, if your external battery unit is hooked up, unplug it from the foot-end battery cable plug (#1).

2. Carefully cut all cable ties (#2).

3. Unplug the existing cable from the Control Box (#3). Plug in the new cable and run along same path as previous cable.

4. Use cable ties to re-secure to tie rod and mounting brackets (#2).

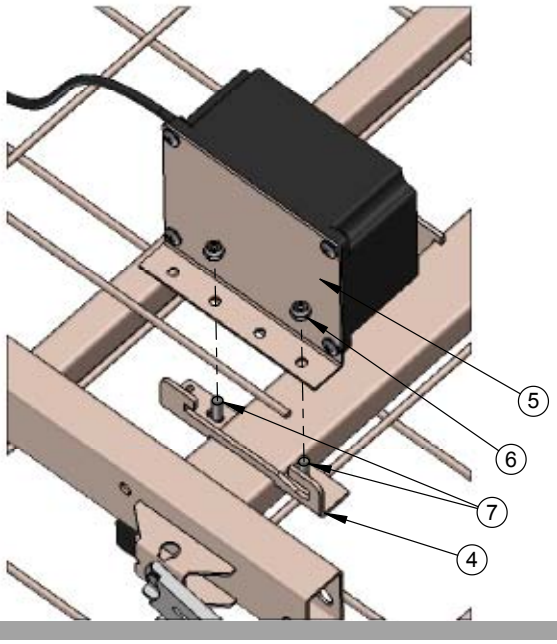


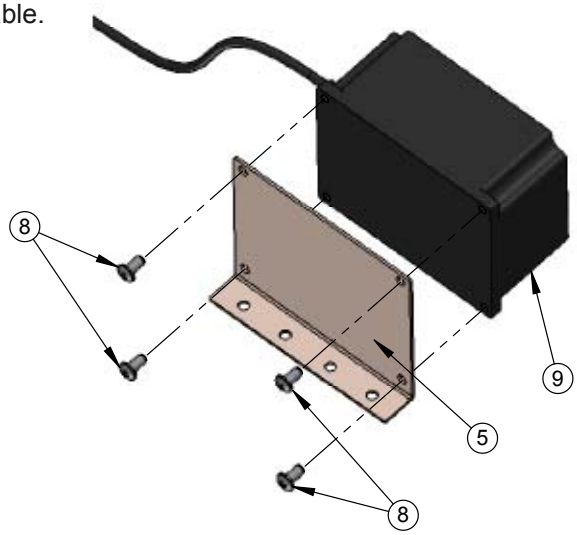
Configuration 2:
Replacing Mounted Battery Backup Unit (includes attached battery cable)

1. If your APS bed came with a mounted Battery Backup Pack **(Part 999-0711-003)** you must first unplug the power cord from the wall unit, then unplug the attached battery cable from the Control Box. Carefully cut all cable ties along the battery cable.

2. Using a 3/8" socket wrench, remove the two Nylon Lock Nuts (#6 - **Part 100-6725-003**) that secure the Battery Mounting Bracket (#5 - **Part 999-0831-001**) to the welded Main Frame Bracket (#4). Remove the bolts (#7 - **Part 100-5225-009**) and set aside.

3. Once the Bracket and Battery Pack (#9) are free, remove the pack from the bracket by unscrewing the four Phillips Head Screws (#8 - **Part 100-5414-001**). Place the new battery pack on the bracket and reverse the process to reattach bracket and cable.





TROUBLESHOOTING - NOTHING WORKS - NO POWER

1. NOTHING WORKS - NO POWER

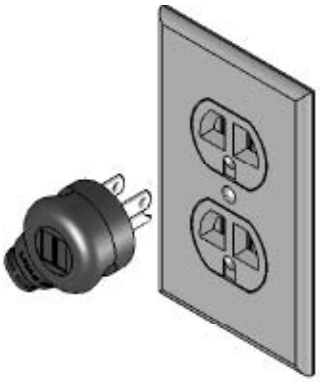
a. Check to make sure you have power coming from your outlet. Unplug the power cable from the outlet and test the outlet by plugging in a lamp or similar portable device. **OUTLET WORKS** = move to Step b.

b. Replug the power cord into the outlet - **NOTHING WORKS** - UNPLUG THE POWER CORD and check the power cord from the head end to the control box, making sure it is not pinched, frayed, or damaged in any way.

- **POWER CORD IS PINCHED =** With cord unplugged, try to move the bed part slightly to release the pinched cord. If you can release the cord, re-plug the power cord into the wall outlet and test the bed.

- **BED WORKS =** Make sure the cord is not frayed or exposed. If it is OK, you should not have to replace.

- **POWER CORD IS DAMAGED =** Cut cable ties and immediately replace Power Cord.

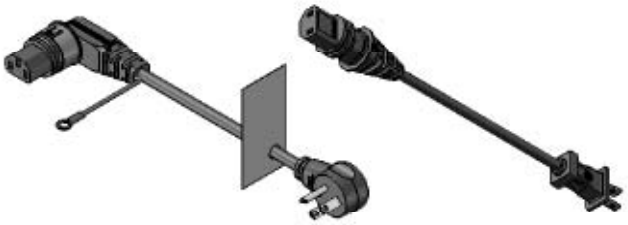


Test Outlet for Power.

Unplug Power Cord and check entire cord to make sure it is not pinched, frayed, or damaged.

3-Prong Power Cable
999-0775-208

2-Prong Power Cable
999-0775-206



ALWAYS UNPLUG THE POWER CORD BEFORE DOING ANY ELECTRICAL WORK ON YOUR BED.

IF 3-PRONG (OR OPTIONAL 2 PRONG) POWER CORD IS DAMAGED, REPLACE IMMEDIATELY!

TROUBLESHOOTING STAFF CONTROL - BLINKING LIGHTS

1. STAFF CONTROL LIGHTS ARE BLINKING NOTHING ON STAFF CONTROL WORKS BUT PENDANT WORKS

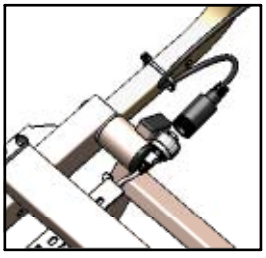
a. This could mean that your staff control is not getting enough power from the Control Box.

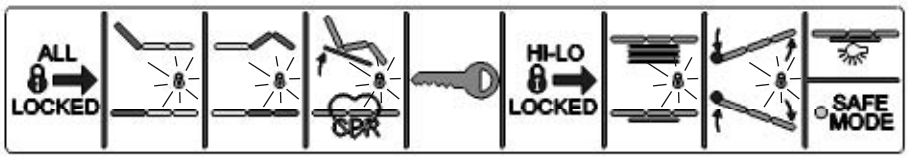
b. Unplug the power cord from the wall outlet. Unplug the staff control cable from the T-Cable at the foot end of the bed.

c. If you have a spare staff control assembly, plug the cable into the T-Cable at the foot end and test.

- **WORKS AND LIGHTS NO LONGER BLINK =** Replace the Staff Control Assembly in your foot-board. (See page 29 for dis-assembly. Please see page 32 for order number.)

- **DOESN'T WORK & LIGHTS STILL BLINKING =** Replace the Control Box. (Please see Page 31 for order number).

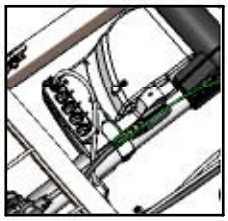


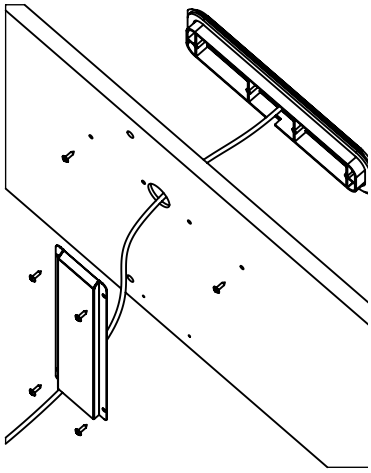


NOTHING ON STAFF CONTROL WORKS BUT PENDANT WORKS

a. Check the Staff Control connections at the foot end. Is the Staff Control Cable plugged securely into the T-Cable? Also check if the other end of the T-Cable is plugged securely into the Control Box (or Underbed Light). If the **STAFF CONTROL STILL DOESN'T WORK** = go to step b.

b. Unplug the Power Cord from your wall outlet. Remove the Cable Cover (Shroud) on the inside of the footboard and locate the single terminal end that plugs directly into the back of the Staff Control Panel. Make sure it is properly seated into the panel. Plug in the power cord and test the staff control. If the **STAFF CONTROL STILL DOESN'T WORK** = Replace the Staff Control Assembly. (See page 29 for dis-assembly. See page 32 for order information.)





TROUBLESHOOTING PENDANT & DOUBLE T-CABLE

1. STAFF CONTROL WORKS BUT PENDANT/ HAND CONTROLLER FUNCTION DOESN'T

a. Check to see if the functions are locked out on the Staff Control panel - if orange lock icons show on panel then that function is locked out. Press the Key and Function (i.e. Head) button at the same time until the orange lock icon goes out. Test the function. If the **PENDANT STILL DOESN'T WORK** = go to step b.

b. Check the connections at the seat pan (Pendant/Hand Controller to T-Cable) and Staff Control Cable connection to the T-Cable at the foot end making sure plugs are fully engaged. Also check the T-Cable connection at the Control Box. If you have an Underbed Light feature, make sure all cables are secure. If the **PENDANT STILL DOESN'T WORK** = move to step c.

c. UNPLUG THE POWER CORD FROM THE WALL OUTLET.

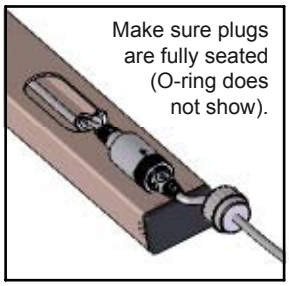
d. Unplug the Pendant/Hand Controller plug from the end of the T-Cable on either side of the beds Seat Pan. Unplug the Staff Control Cable from the end of the T-Cable at the foot end of the bed and unplug the other end from the Control Box.

e. Plug the Pendant/Hand Controller plug directly into the HB port on the Control Box, making sure it is fully seated. Plug in the Power Cord and test the Pendant.

- **ALL BUTTONS WORK** = Replace the T-Cable (See page 32 for order information.)
- **NOTHING WORKS** = Replace the Hand Controller. (See page 31 for order information.)

If orange lock icon lit, press key symbol and function to unlock. A

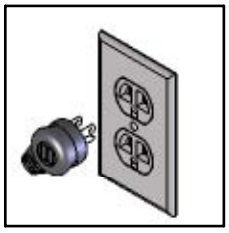
B



Make sure plugs are fully seated (O-ring does not show).

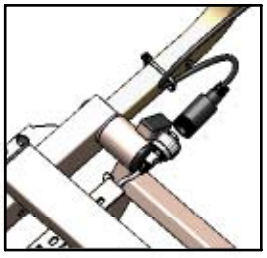
Make sure plugs at foot end are fully seated and cap locked on. B

C



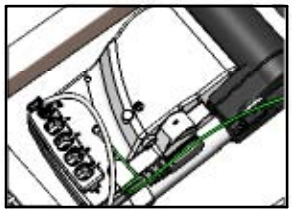
Unplug Power Plug before working on bed electonics.

Unplug Staff Control Cable from T-Cable at foot end. D

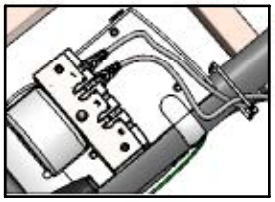


Plug Pendant Cable directly into HB port on Control Box (or into port 2 in Underbed Light Box) and test.

E



E



TROUBLESHOOTING MOTOR CABLES & CONTROL BOX

1. HEAD, FOOT, OR HI/LO FUNCTION NOT WORKING

a. Check plugs to make sure they are firmly seated in all ports on your Control Box and are plugged into the correct ports (See diagram at right).

b. Check all cables to make sure they are not frayed, pinched, or damaged in any way. If any cable is damaged, UNPLUG YOUR BED'S POWER CORD FROM THE WALL OUTLET and REPLACE THE CABLE AND/OR THE ELECTRONIC COMPONENT.

c. HEAD DECK NOT RAISING - Unplug the power cord. Switch the head and foot plugs (ports 1 and 3). Re-plug the power cord and press the FOOT button to test.

- **HEAD WORKS** = Control Box head port bad. Replace box (See page 31 for order information.)
- **DOESN'T WORK** = Replace the Head Motor. (See page 31 for order information.)

d. FOOT AND KNEE DECKS NOT RAISING - Unplug the power cord. Switch the foot and head plugs (ports 3 and 1). Re-plug the power cord and press the HEAD button to test.

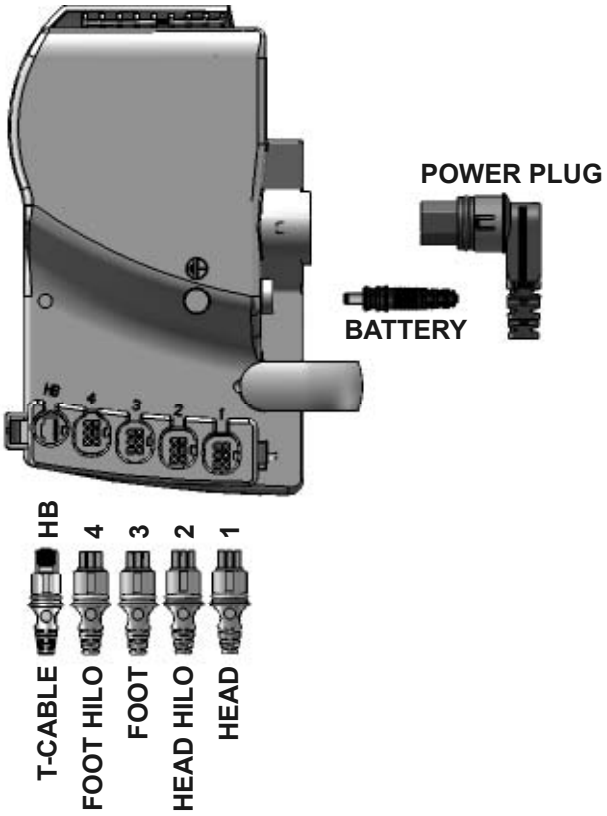
- **FOOT WORKS** = Control Box foot port bad. Replace box (See page 31 for order information.)
- **DOESN'T WORK** = Replace the Foot Motor. (See page 31 for order information.)

e. BED DOES NOT GO UP AND DOWN IN HORIZONTAL POSITION - If you press the Up or Down Hi/Lo button and you hear a click or buzz but nothing happens = Check your Hi/Lo Motors by touching them & pushing the Hi/Lo buttons.

- **YOU FEEL NOTHING** = possible bad motor - go to the third step below.
- **YOU FEEL SLIGHT VIBRATION** = Motor OK.
- **Unplug the Power Cord** = Switch the two Hi/Lo plugs (ports 4 and 2) in the Control Box. Re-plug the power cord and press the same Hi/Lo button, then touch the same non-vibrating motor.

  i. **MOTOR NOW VIBRATES** = Bad port in the Control Box - Replace box. (See page 31 for order information.)

  ii. **MOTOR DOES NOT VIBRATE** = Replace the bad Hi/lo Motor. (See page 31.)



2. BED LOOKS UNLEVEL - HILO MOTORS ARE NOT IN SYNC.

a. Press the Hi/Lo "DOWN" button repeatedly on either the Staff Control or Pendant/Hand Controller until the bed goes completely down and rests in its full horizontal position. The two HI/LO motor shafts should be completely retracted inside the motors.

QUICK REFERENCE

- **HI/LO & FOOT WORKS, BUT HEAD DOES NOT:** Switch Head & Foot Motor Cable at the Control Box and test (See Step C in left column).
- **HI/LO & HEAD WORKS, BUT FOOT DOES NOT:** Switch Foot & Head Motor Cable at the Control Box and test (See Step D in left column).
- **HEAD & FOOT WORKS, BUT HI/LO DOES NOT:**
  a. Switch Head and Foot Hi/Lo Motor Cables at the Control Box and test (See Step E in left column).
  b. Test to see if Hi/Lo Motors need to be re-aligned (See Step F above).

TROUBLESHOOTING/REPLACING YOUR APS STAFF CONTROL

REMOVING AND REPLACING THE STAFF CONTROL ASSEMBLY

1. UNPLUG THE POWER CORD FROM THE WALL OUTLET.

2. Unscrew the four Phillips Screws (#1) that attach the Shroud (cable cover) to the footboard and set aside.

3. At the foot end of the bed, unscrew the retaining cap on the T-Cable (#3) and unplug the two cables.

4. Unscrew the two remaining Phillips Screws (#2) from the inside of the footboard that attach the Staff Control Assembly bevel to the board. Set aside screws for later re-assembly.

5. Remove the OLD Staff Control Assembly and fish the old cable out through the large hole.

6. Feed the cable of the NEW Staff Control Assembly from the outside through the large hole and insert the bevel into the cutout on the outside of the footboard.

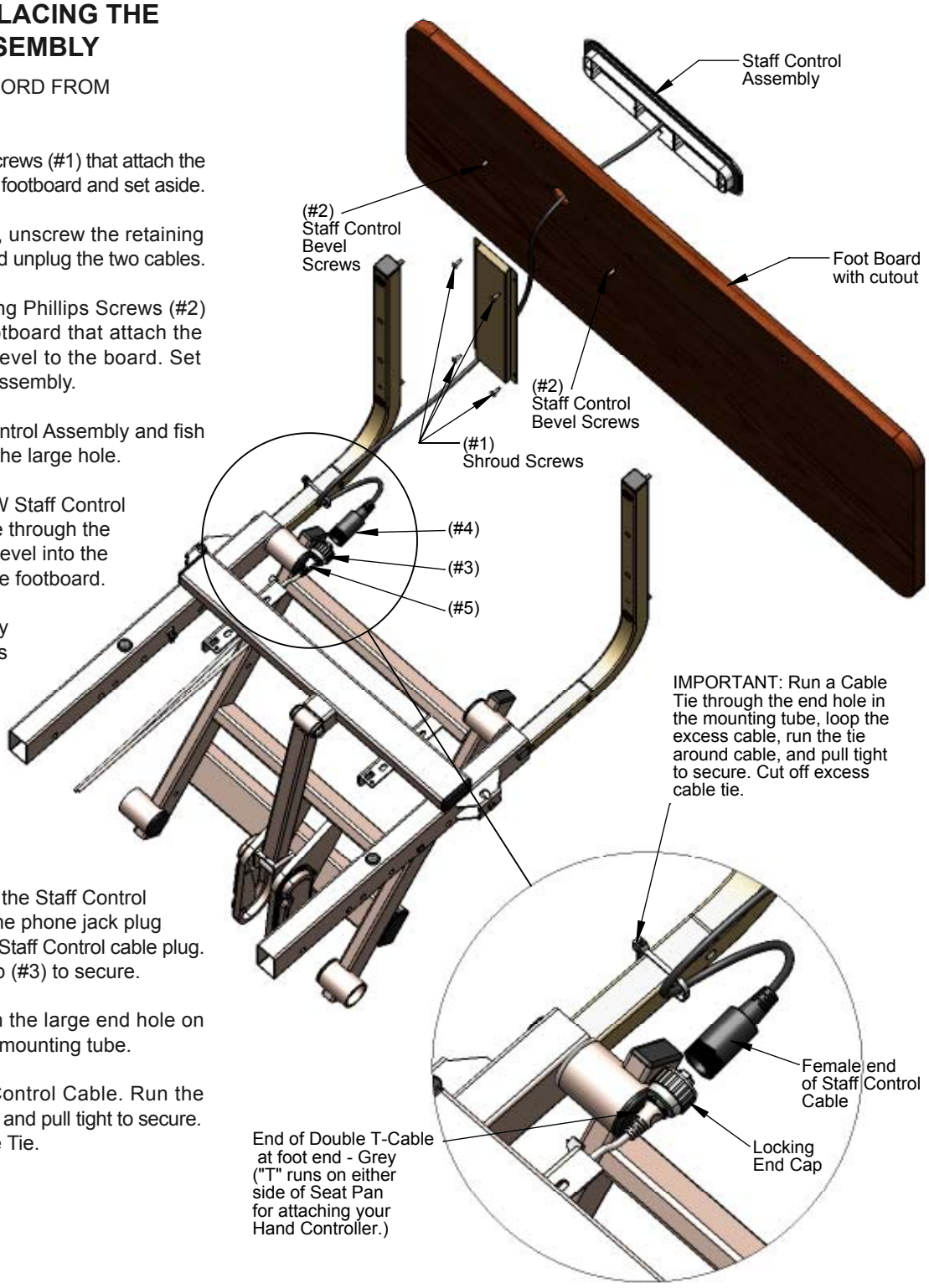
7. Secure the Staff Control by re-inserting the two Phillips Screws (#2) you removed in Step 4.

8. Re-position the Shroud on the inside of the footboard and secure with the four Phillips Screws (#1) you removed in Step 2.

9. Plug the T-Cable (#5) into the Staff Control Cable (#4), making sure the phone jack plug is seated correctly into the Staff Control cable plug. Screw on the retaining cap (#3) to secure.

10. Run a Cable Tie through the large end hole on the right-hand footboard mounting tube.

11. Loop the excess Staff Control Cable. Run the cable tie around the cable and pull tight to secure. Cut off any excess Cable Tie.


Staff Control Assembly
(#2) Staff Control Bevel Screws
Foot Board with cutout
(#2) Staff Control Bevel Screws
(#1) Shroud Screws
(#4)
(#3)
(#5)
IMPORTANT: Run a Cable Tie through the end hole in the mounting tube, loop the excess cable, run the tie around cable, and pull tight to secure. Cut off excess cable tie.
Female end of Staff Control Cable
Locking End Cap
End of Double T-Cable at foot end - Grey ("T" runs on either side of Seat Pan for attaching your Hand Controller.)

RECOMMENDED MAINTENANCE AND INSPECTION

Maintenance Inspection of All Components (Receipt of shipment)

- Make sure all parts/components are included (Please see page 9 - "Unpacking Your Bed").
- Check all bed components for obvious damage.
- Inspect the Power Supply Cord for any cuts and/or damage.
- Check to see all actuator cords are routed and connected properly to the control box.

Mechanical Inspection of Assemblies (6 months)

- Inspect all welds on the sleeping surface, frame, and base assemblies for stress fractures.
- Inspect all fasteners for wear and looseness.
- IMPORTANT: Lubricate all pivot points, actuator/motor clevis pins, and control arm clevis pins as needed. White Lithium Grease is recommended.

Mechanical Inspection of Casters & Pedal Locking Mechanism (3 months)

- Check the pedal locking mechanism to make sure it engages and disengages properly.
- Check the bottom foot pads on the foot end casters, making sure they are clean of debris and undamaged. Replace if needed.
- Check all casters to ensure that they roll properly and are unobstructed.

Electrical Inspection of Control Box (6 months)

- Check the external power cord that plugs into the control box for any chafing cuts or wear.
- Make sure all attaching hardware is securely tightened.
- Check all electrical connections for any wear or fractures.
- Check your external or mounted battery (see page 24) Replace if needed.

Electrical Inspection of Pendant and Staff Control (6 months)

- Check the pendant cord for any chafing, cuts, or wear.
- Check all pendant functions . . .
  - ✓ Head raises and lowers properly
  - ✓ Foot raises and lowers properly
  - ✓ Entire bed raises and lowers properly
  - ✓ Bed moves to Chair position properly
  - ✓ Bed moves to Trendelenberg and Reverse Trendelenberg positions properly
- Check to make sure each button and associated function work properly (i.e. the head section raises when the Head Up button is activated).

Electrical Inspection of Actuators/Motors (6 months)

- Check the actuator/motor cords for any chafing, cuts, or wear.
- Check the range of movement on all motors to ensure they do not bind in the Full Up and Full Down positions.

WARRANTY

- 15 Years on Frame
- **5 Years on Motors and Control Box** (longest motor warranty in the industry)
- 3 Years on Other Electronics

The warranties contained herein contain all the representation and warranties with respect to the subject matter of this document, and supersede all prior negotiations, agreements and understanding with respect thereto. The recipient of this document hereby acknowledges and represents that it has not relied on any representation, assertion, guarantee, warranty, collateral contract or other assurance, except those set out in this document.

SERVICE/REPLACEMENT PART RECORD (Page 1)

DECKING					
Part Number	**Description**		**QTY**	**Order Date**	**Price**
999-0844-920SP	Head/Back Deck & Hardware Pack		1 Deck		
999-0844-930SP	OR - Foot Deck & Hardware Pack		1 Deck		
999-0844-940SP	OR - Knee Deck & Hardware Pack		1 Deck		
	Deck Hardware Pack - INCLUDES . . .		1 Pkg		
	4	Clevis Pins			
	5	5/16” Retaining Rings (Deck Brackets)			
	2	12mm Retaining Ring (Cntrl Arms to Decks)			
	1	Installation Instruction Sheet			

MOTORS (ACTUATORS)					
Part Number	**Description**		**QTY**	**Order Date**	**Price**
999-0831-051SP	Hi/Lo Motor (Cable not included) & Hardware Pack		1 Motor		
999-0822-052SP	OR - Head Motor (Cable not included) & Hardware Pack		1 Motor		
999-0822-053SP	OR - Foot Motor (Cable not included) & Hardware Pack		1 Motor		
	Motor Hardware Pack - INCLUDES . . .		1 Pkg		
	2	12mm Retaining Rings			
	2	Hair Pin Clips			
	2	Snap Rings			
	8	Standard Cable Ties			
	1	Installation Instruction Sheet			
999-0806-200	Head and Hi/Lo Motor Cables		1 per Motor		
999-0806-202	Foot Motor Cable		1 Cable		

CONTROL BOX & POWER CABLES				
Part Number	**Description**	**QTY**	**Order Date**	**Price**
999-0831-300	Linak Control Box and Clip	1 Box		
999-0775-208	Standard 3 Prong Power Cable Ground Wire	1 Cable		
999-0775-206	Optional 2 Prong Power Cable	1 Cable		

PENDANT/HAND CONTROLLER				
Part Number	**Description**	**QTY**	**Order Date**	**Price**
999-0806-301	Backlit Pendant with Underbed Light button	1 Pendant		
999-0791-000	Pendant Holster	1 Holster		
999-0806-305	Non-Backlit Pendant (no Underbed Light button)	1 Pendant		

SERVICE/REPLACEMENT PART RECORD (Page 2)

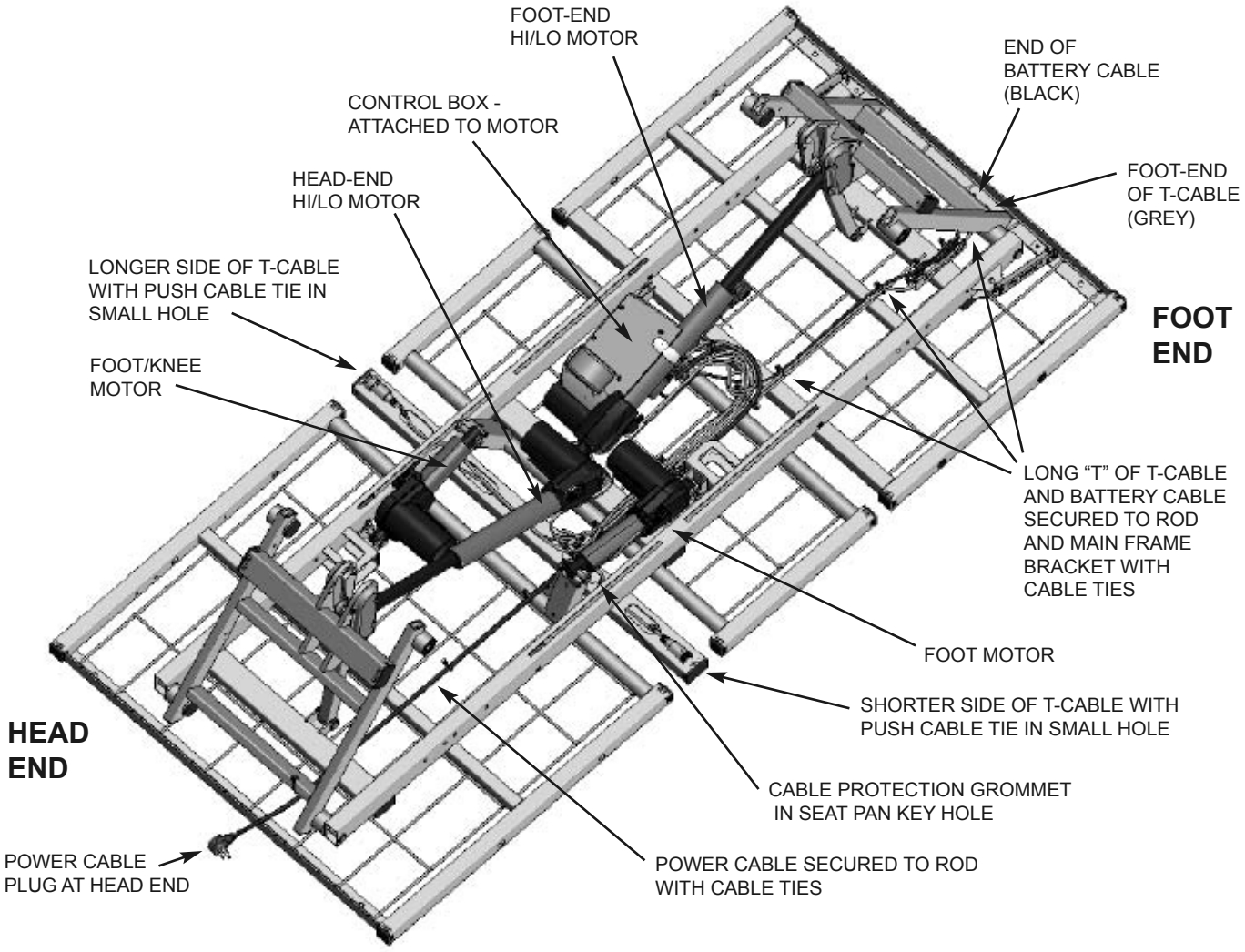
DOUBLE T-CABLE					
Part Number	**Description**		**QTY**	**Order Date**	**Price**
999-0806-200SP	Double “T” Control Cable		1 Cable		
	Deck Hardware Pack - INCLUDES . . .		1 Pkg		
	2	Split Stem Cable Retainer			
	4	Push Cable Ties			
	8	Standard Cable Ties			
	1	Installation Instruction Sheet			

UNDERBED LIGHT					
Part Number	**Description**		**QTY**	**Order Date**	**Price**
999-0806-220SP	Underbed Light Unit		1 Motor		
	Motor Hardware Pack - INCLUDES . . .		1 Pkg		
	12	Adaptor Cable - 999-0806-212			
	4	Standard Cable Ties			
	1	Attachment Material			
	1	Installation Instruction Sheet			

STAFF CONTROL					
Part Number	**Description**		**QTY**	**Order Date**	**Price**
999-0831-901	Switch Pad with Bezel & Cables		1 Unit		
ZL831000	**Staff Control Service Pack - INCLUDES . . .**		1 Pkg		
PLEASE SEE PAGE 11 FOR INSTALLATION INSTRUCTIONS	1	Switch Pad with Bezel & Cables			
	1	Shroud (Cable Cover)			
	6	#6 Phillips Head Truss Screws			
	3	4” Nylon Cable Tie			
	1	Installation Instruction Sheet			

CAPS & PLUGS				
Part Number	**Description**	**QTY**	**Order Date**	**Price**
NOTE: CAPS & PLUGS CAN ONLY BE PURCHASED IN SETS OF 12				
100-4200-004PK	**1.25” x 1.25” Square Caps Pack**	12/pkg		
100-4700-017PK	**1.00” x 2.00” Rectangular Caps Pack**	12/pkg		
100-4700-018PK	**1.25” x 2.00” Rectangular Caps Pack**	12/pkg		
100-4715-011PK	**1.50” Round End Caps Pack (cover arm bearings)**	12/pkg		
999-0775-001PK	**Half Moon End Caps Pack (caster bases)**	12/pkg		
100-4762-002PK	**5/8” Round Plugs Pack (both sides of foot deck)**	12/pkg		
100-4738-005PK	**3/8” Round Plugs (on main frame rails - foot end)**	12/pkg		
FOR GENERAL CAP/PLUG DIAGRAMS PLEASE SEE PAGES 36 & 37				

SERVICE/REPLACEMENT PART DIAGRAM - ELECTRONICS


FOOT-END HI/LO MOTOR
END OF BATTERY CABLE (BLACK)
CONTROL BOX - ATTACHED TO MOTOR
FOOT-END OF T-CABLE (GREY)
HEAD-END HI/LO MOTOR
LONGER SIDE OF T-CABLE WITH PUSH CABLE TIE IN SMALL HOLE
FOOT END
FOOT/KNEE MOTOR
LONG "T" OF T-CABLE AND BATTERY CABLE SECURED TO ROD AND MAIN FRAME BRACKET WITH CABLE TIES
FOOT MOTOR
SHORTER SIDE OF T-CABLE WITH PUSH CABLE TIE IN SMALL HOLE
HEAD END
CABLE PROTECTION GROMMET IN SEAT PAN KEY HOLE
POWER CABLE PLUG AT HEAD END
POWER CABLE SECURED TO ROD WITH CABLE TIES

1. **TO ORDER A REPLACEMENT HI/LO MOTOR USE SERVICE PACK 999-0831-051SP** (Includes motor, mounting hardware & installation instruction sheet).

2. **TO ORDER A REPLACEMENT HEAD MOTOR USE SERVICE PACK 999-0822-052SP** (Includes motor, mounting hardware & installation instruction sheet).

3. **TO ORDER A REPLACEMENT FOOT MOTOR USE SERVICE PACK 999-0822-053SP** (Includes motor, mounting hardware & installation instruction sheet).

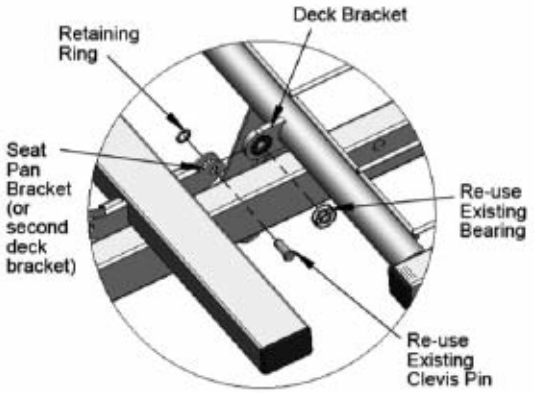
4. **TO ORDER A REPLACEMENT CONTROL BOX PLEASE USE 999-0831-300** (Includes Control Box and mounting clip. Power Cord must be ordered separately - see page 31 for order numbers)

5. **TO ORDER A REPLACEMENT DOUBLE T-CABLE USE SERVICE PACK 999-0806-200SP** (Includes T-Cable, cable ties, grommets & installation instruction sheet).

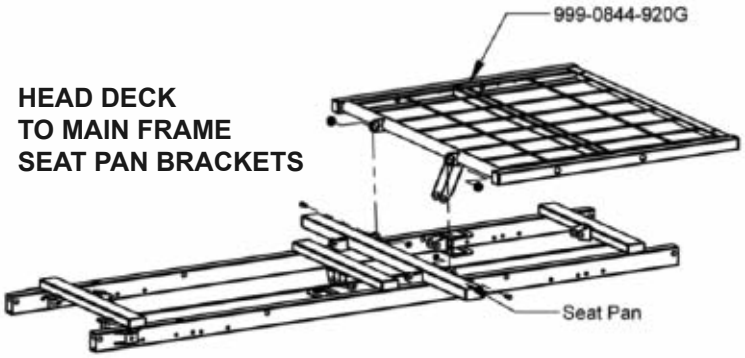
6. **TO ORDER A REPLACEMENT BATTERY MOTOR USE SERVICE PACK 999-0711-001SP** (Includes battery cable, long cable ties, and installation instruction sheet).

WHEN ORDERING REPLACEMENT PARTS WITH CUSTOMER SERVICE,
PLEASE HAVE YOUR BED'S SERIAL NUMBER AVAILABLE
TO CONFIRM WHETHER THE PART IS COVERED UNDER WARRANTY.
(SEE PAGE 5 FOR LOCATION OF SERIAL NUMBER ID LABEL.)

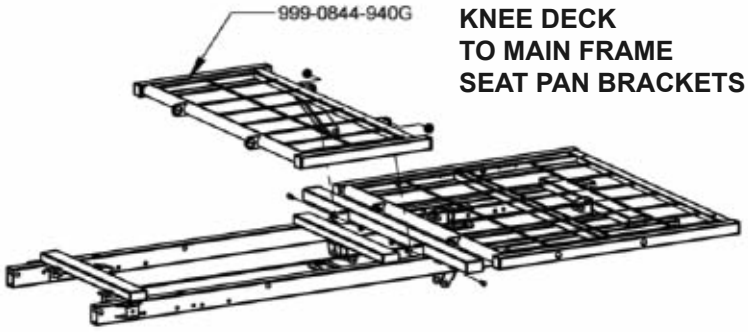
SERVICE/REPLACEMENT PART DIAGRAM - DECKING



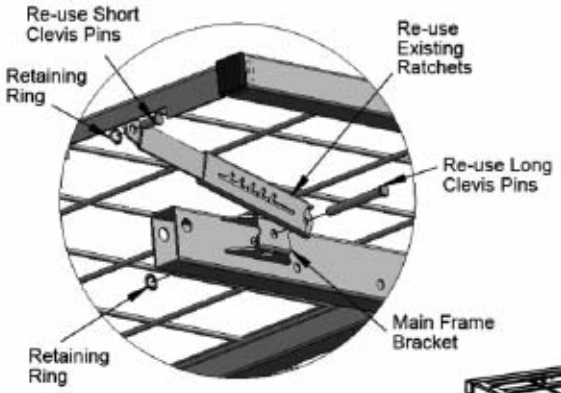
DETAIL OF DECK ATTACHMENT (Similar for all decks)



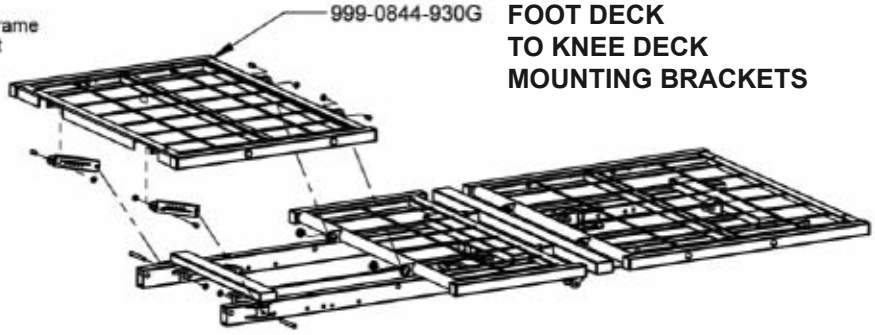
HEAD DECK TO MAIN FRAME SEAT PAN BRACKETS



KNEE DECK TO MAIN FRAME SEAT PAN BRACKETS



DETAIL OF EDEMA RATCHET RE-ATTACHMENT (Use existing ratchets and hardware)

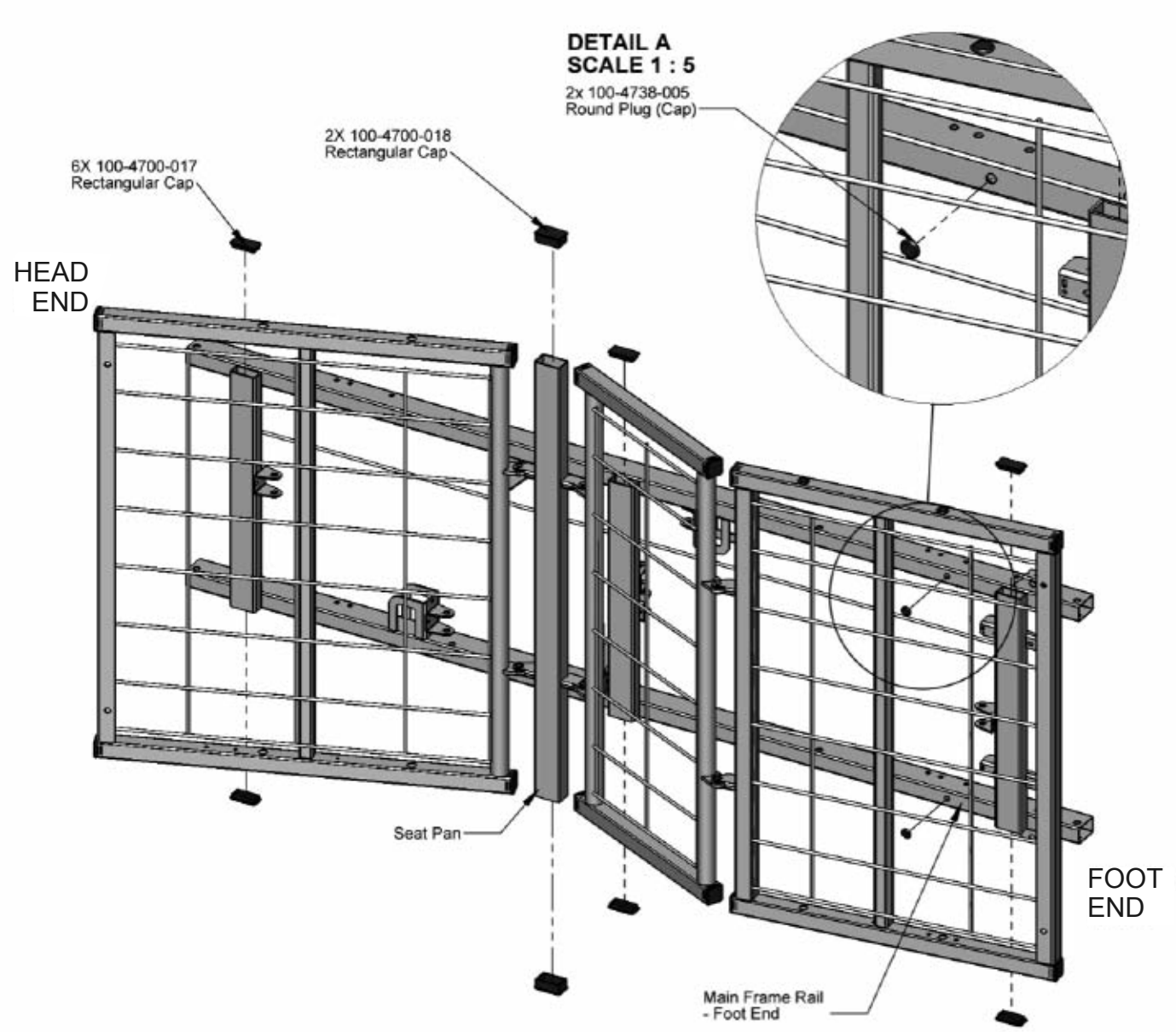


FOOT DECK TO KNEE DECK MOUNTING BRACKETS

1. **TO ORDER A REPLACEMENT HEAD DECK USE SERVICE PACK 999-0844-920SP** (includes deck, mounting hardware & installation instruction sheet).
2. **TO ORDER A REPLACEMENT KNEE DECK USE SERVICE PACK 999-0844-940SP** (includes deck, mounting hardware & installation instruction sheet).
3. **TO ORDER A REPLACEMENT FOOT DECK USE SERVICE PACK 999-0844-930SP** (includes deck, mounting hardware & installation instruction sheet). Re-use existing edema ratchets & ratchet hardware.

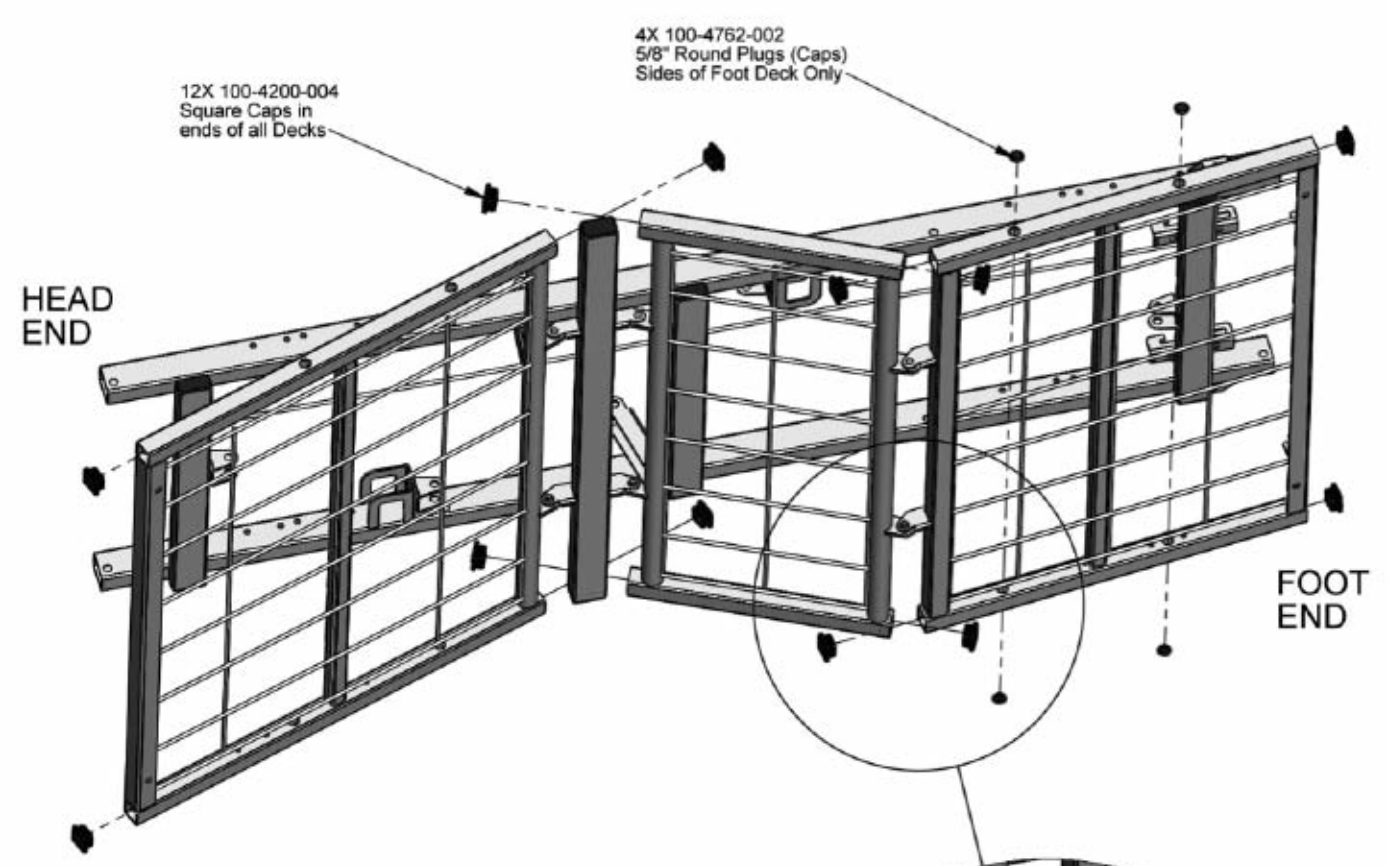
WHEN ORDERING REPLACEMENT PARTS WITH CUSTOMER SERVICE,
PLEASE HAVE YOUR BED'S SERIAL NUMBER AVAILABLE
TO CONFIRM WHETHER THE PART IS COVERED UNDER WARRANTY.
(SEE PAGE 5 FOR LOCATION OF SERIAL NUMBER ID LABEL.)

SERVICE/REPLACEMENT PART DIAGRAM - MAIN FRAME CAPPING

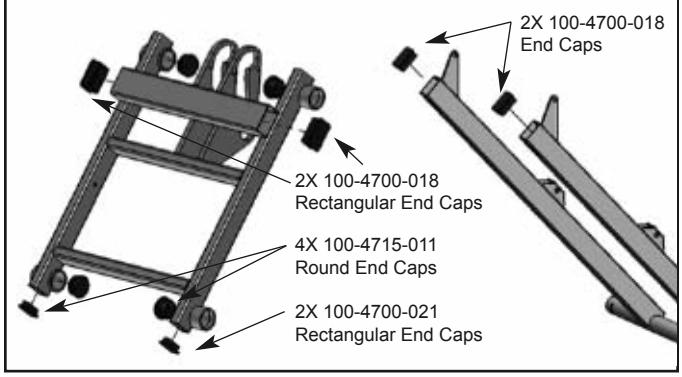


CAPS OR PLUGS ARE NOT COVERED UNDER WARRANTY
(PACKS OF 12 CAN BE ORDERED IN THE EVENT YOU DAMAGE OR LOSE
ANY CAPS/PLUGS ON YOUR BED - SEE BOTTOM OF PAGE 32 FOR ORDER NUMBERS)

SERVICE/REPLACEMENT PART DIAGRAM - CAPPING ON HEAD, KNEE, AND FOOT DECKS



CAPPING ON ARMS & LEGS



CAPS OR PLUGS ARE NOT COVERED UNDER WARRANTY
(PACKS OF 12 CAN BE ORDERED IN THE EVENT YOU DAMAGE OR LOSE
ANY CAPS/PLUGS ON YOUR BED - SEE BOTTOM OF PAGE 32 FOR ORDER NUMBERS)

NOTES:

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